SELF-CONTAINED COOLING PACKAGE UNITS

FORM NO. S11-931 REV. 1
Supersedes Form No. S11-931 Rev. 0

RLKB- STANDARD EFFICIENCY SERIES
NOMINAL SIZES 15-25 TONS [52.8-87.9 kW]
ASHRAE 90.1-1989 COMPLIANT MODELS

RLMB- HIGH EFFICIENCY SERIES
NOMINAL SIZES 15 & 20 TONS [52.8 & 70.3 kW]
ASHRAE 90.1-1999 COMPLIANT MODELS

RLNB- SUPER HIGH EFFICIENCY SERIES
NOMINAL SIZE 15 TON [52.8 kW]
ENERGYSTAR COMPLIANT MODEL

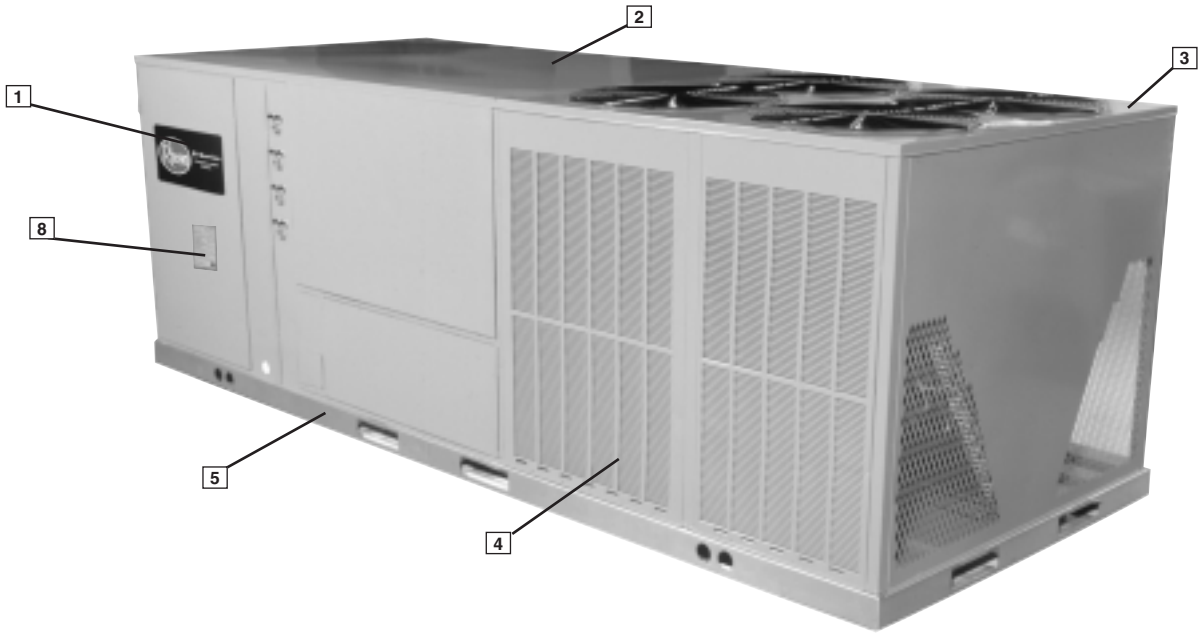
ISO 9002
Certificate Number: 30164

LISTED

RATED IN ACCORDANCE WITH
A.R.I. STANDARD 210 & 360

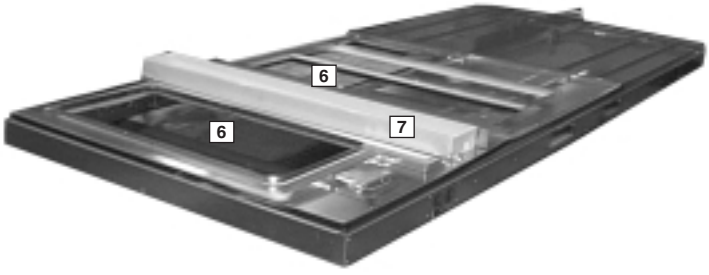
TABLE OF CONTENTS

UNIT FEATURES & BENEFITS—RLKB/RLMB/RLNB- SERIES



Rheem Package equipment is designed from the ground up with the latest features and benefits required to compete in today's market. The clean design stands alone in the industry and is a testament to the quality, reliability, ease of installation and serviceability that goes into each unit. Outwardly, the large Rheem "B-series" label **(1)** identifies the brand to the customer. The sheet-metal cabinet **(2)** uses nothing less than 18-gauge material for structural components with an underlying coat of G90. To ensure the leak-proof integrity of these units, the design utilizes a one-piece top with a 1/8" drip lip **(3)**, gasket-protected panels and screws. The Rheem hail guard **(4)** is its trademark, and sets the standard for coil protection in the industry. Every Rheem package unit uses the toughest finish in the industry, using electro deposition baked-on enamel tested to withstand a rigorous 1000-hour salt spray test, per ASTM B117.

Anything built to last must start with the right foundation. In this case, the foundation is 14-gauge, commercial-grade, full-perimeter base rails **(5)**, which integrate fork slots and rigging holes to save set-up time on the job site. The base pan is stamped, which forms a 1-1/8" flange around the supply and return cover and has eliminated the worry of water entering the conditioned space **(6)**. The drainpan **(7)** is made of material that resists the growth of harmful bacteria and is sloped for the latest IAQ benefits. The insulation has been placed on the underside of the basepan, removing areas that would allow for potential moisture accumulation, which can facilitate growth of harmful bacteria. All insulation is secured with both adhesive and mechanical fasteners, and all edges are hidden.

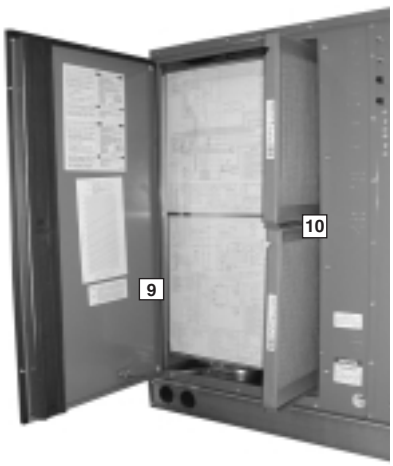


During development, each unit was tested to U.L. 1995, ARI 340-370 and other Rheem-required reliability tests. Rheem adheres to stringent IS0 9002 quality procedures, and each unit bears the U.L. and ARI certification labels located on the unit nameplate **(8)**. Contractors can rest assured that when a Rheem package unit arrives at the job, it is ready to go with a factory charge and quality checks. Each unit also proudly displays the "Made in the USA" designation.

Access to all major compartments is from the front of the unit, including the filter and electrical compartment, blower compartment, heating section, and outdoor section. Each panel is permanently embossed with the compartment name (control/filter access, blower access and furnace access).

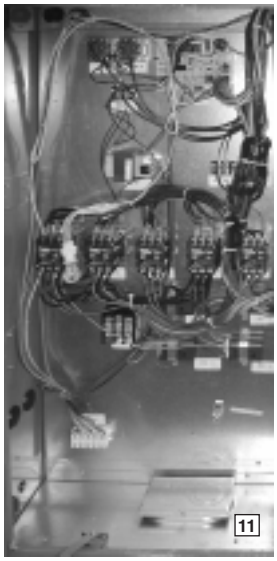
Electrical and filter compartment access is through a large, toolless, hinged-access panel. On the outside of the panel is the unit nameplate, which contains the model and serial number, electrical data and other important unit information.

The unit charging chart is located on the inside of the electrical and filter compartment door. Electrical wiring diagrams are found on the control box cover, which allows contractors to move them to more readable locations. To the right of the control box the model and serial number can be found. Having this information on the inside will assure model identification for the life of the product. The production line quality test assurance label is also placed in this location **(9)**. The two-inch throwaway filters **(10)** are easily removed on a tracked system for easy replacement.



UNIT FEATURES & BENEFITS—RLKB/RLMB/RLNB- SERIES

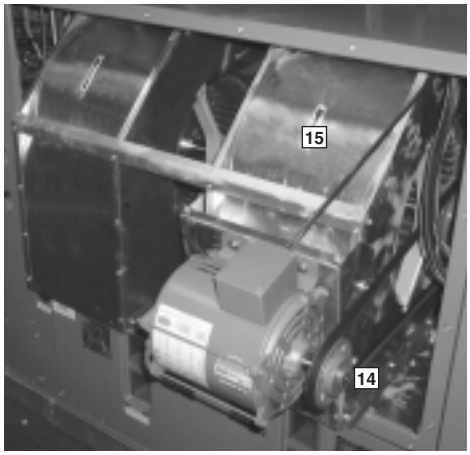
Inside the control box **(**11**)**, each electrical component is clearly identified with a label that matches the component to the wire diagram for ease of trouble shooting. All wiring is numbered on each end of the termination and color-coded to match the wiring diagram. The control transformer has a low voltage circuit breaker that trips if a low voltage electrical short occurs. There is a blower contactor and compressor for each compressor.

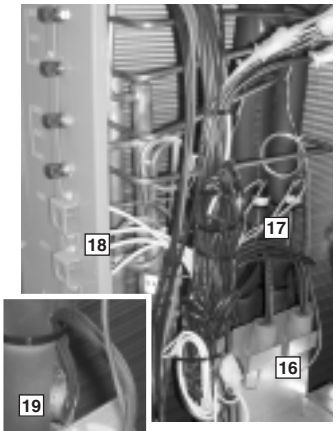


For added convenience in the field, a factory-installed convenience outlet **(**12**)** is available. Low and High voltage can enter either from the side or through the base. Low-voltage connections are made through the low-voltage terminal strip. For ease of access, the U.L.-required low voltage barrier can be temporarily removed for low-voltage termination and then reinstalled. The high-voltage connection is terminated at the high voltage terminal block. The suggested mounting for the field-installed disconnect is on the exterior side of the electrical control box.

To the right of the electrical and filter compartment are the externally mounted gauge ports, which are permanently identified by embossed wording that clearly identifies the compressor circuit, high pressure connection and low pressure connection **(**13**)**. With the gauge ports mounted externally, an accurate diagnostic of system operation can be performed quickly and easily.

The blower compartment is to the right of the gauge ports and can be accessed by removing 5/16" washer-head screws. This panel is not hinged to assure a water-tight fit with the unit. To allow easy maintenance of the blower assembly, the entire assembly easily slides out by removing the 3/8" screws from the blower retention bracket. The adjustable motor pulley **(**14**)** can easily be adjusted by loosening the bolts on either side of the motor mount. Removing the bolts allows for easy removal of the blower pulley by pushing the blower assembly up to loosen the belt. Once the pulley is removed, the motor sheave can be adjusted to the desired number of turns, ranging from 0 to 6 turns open. Where the demands for the job require high static, Rheem has high-static drives available that deliver nominal airflow up to 2" of static. By referring to the airflow performance tables listed in the installation instructions, proper static pressure and CFM requirements can be dialed in. The scroll housing **(**15**)** and blower scroll provide quiet and efficient airflow. The blower sheave is secured by an “H” bushing which firmly secures the pulley to the blower shaft for years of trouble-free operation. The “H” bushing allows for easy removal of the blower pulley from the shaft, as opposed to the use of a set screw, which can score the shaft, creating burrs that make blower-pulley removal difficult.

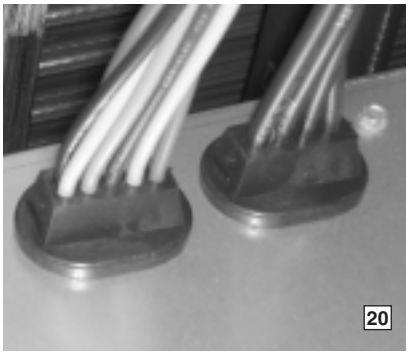


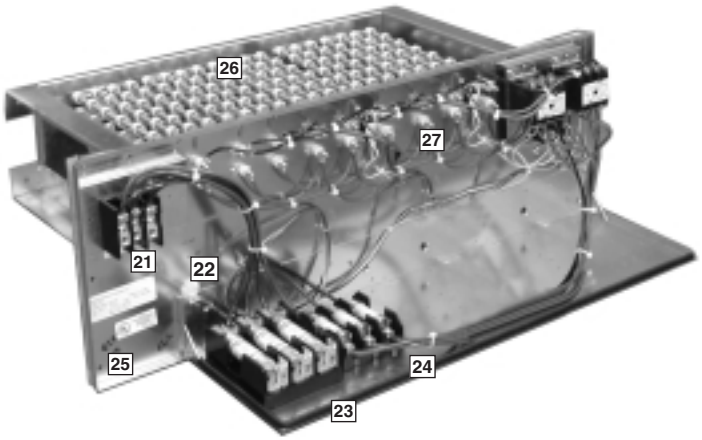


Also inside the blower compartment is the low-ambient control **(**16**)**, low-pressure switch **(**17**)**, high-pressure switch **(**18**)** and freeze stat refrigerant safety device **(**19**)**. The low-ambient control allows for operation of the compressor down to 0 degrees ambient temperature by cycling the outdoor fans on high pressure. The high-pressure switch will shut off the compressors if pressures exceeds, 450 PSIG are detected, this may occur if the outdoor fan motor fails. The low-pressure switch shuts off the compressors if low pressure is detected due to loss of charge. The freeze stat protects the compressor if the evaporator coil gets too cold (below freezing) due to low airflow. Each factory-installed option is brazed into the appropriate high or low side and wired appropriately. Use of polarized plugs and shrader fittings allow for easy field installation.

Inside the blower compartment the interlaced evaporator can also be viewed. The evaporator uses enhanced fin technology for maximum heat transfer. The cap-tube metering device assures even distribution of refrigerant throughout the evaporator.

Wiring throughout the unit is neatly bundled and routed. Where wire harnesses go through the condenser bulkhead or blower deck, a molded wire harness assembly **(**20**)** provides an air-tight and water-tight seal, and provides strain relief. Care is also taken to tuck raw edges of insulation behind sheet metal to improve indoor air quality.

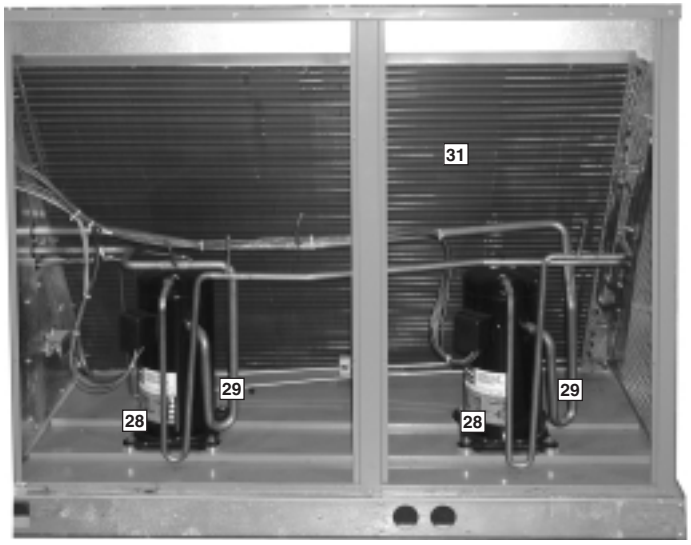




The heating compartment contains the latest electric furnace technology on the market. The 100% efficient electric furnace can be factory-installed or easily field-installed. Built with ease-of-installation in mind, the electric furnace is completely wired for slide-in, plug-and-play installation in the field. With choices of up to six kilowatt offerings, the contractor is assured to get the correct amount of heating output to meet the designed heating load.

Power hook-up in the field is easy with single-point wiring to a terminal block **(**21**)** and a polarized plug for the low-voltage connection **(**22**)**. The electric furnace comes with fuses for the unit **(**23**)** and for the electric furnace **(**24**)**, and is UL certified **(**25**)**. The electric heating elements are of a wound-wire construction **(**26**)** and isolated with ceramic bushings. The limit switch **(**27**)** protects the design from over-temperature conditions. Each electric furnace has the capability to be converted from single-stage operation to two-stage operation by removing a jumper on the low-voltage terminal strip.

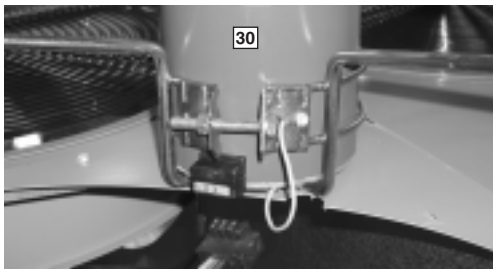
UNIT FEATURES & BENEFITS—RLKB/RLMB/RLNB- SERIES

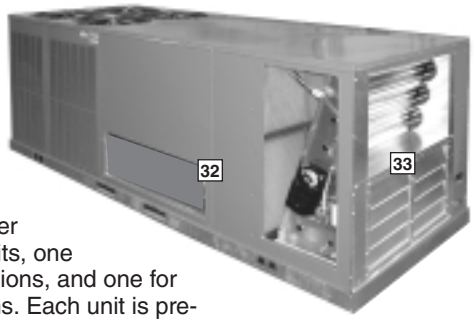


The compressor compartment houses the heartbeat of the unit. The Copeland-compliant scroll compressor **(**28**)** is known for its long life, and for reliable, quiet, and efficient operation. The suction and discharge lines are designed with shock loops **(**29**)** to absorb the strain and stress that the starting torque, steady state operation, and shut down cycle impose on the refrigerant tubing. Each compressor and circuit is independent for built-in redundancy, and each circuit is clearly marked throughout the system. Each unit has two stages of efficient cooling operation, first stage is approximately 50% of second stage.

The condenser fan motor **(**30**)** can easily be accessed and maintained by removing the protective fan grille. The polarized plug connection allows the motor to be changed quickly and eliminates the need to snake wires through the unit.

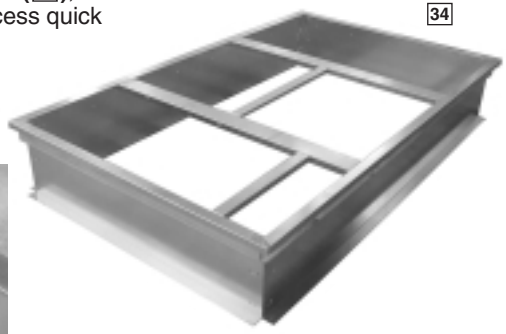
The outdoor coil uses the latest enhanced fin design **(**31**)** for the most effective method of heat transfer. The outdoor coil is protected by louvered panels, which allow unobstructed airflow while protecting the unit from both Mother Nature and vandalism.

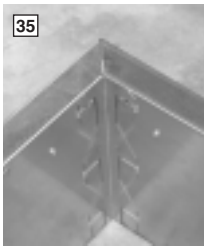




Each unit is designed for both downflow or horizontal applications **(**32**)** for job configuration flexibility. The return air compartment can also contain an economizer **(**33**)**. Two models exits, one for downflow applications, and one for horizontal applications. Each unit is prewired for the economizer to allow quick plug-in installation. The economizer is also available as a factory-installed option. Power Exhaust is easily field-installed. The economizer, which provides free cooling when outdoor conditions are suitable and also provides fresh air to meet local requirements, comes standard with single enthalpy controls. The controls can be upgraded to dual enthalpy easily in the field. The direct drive actuator combined with gear drive dampers has eliminated the need for linkage adjustment in the field. The economizer control has a minimum position setpoint, an outdoor-air setpoint, a mix-air setpoint, and a CO^2 setpoint. Barometric relief is standard on all economizers. The power exhaust is housed in the barometric relief opening and is easily slipped in with a plug-in assembly.

The Rheem roofcurb **(**34**)** is made for toolless assembly at the jobsite by sequentially engaging the corner brackets into the adjacent curb sides **(**35**)**, which makes the assembly process quick and easy.





SELECTION PROCEDURE EXAMPLE—RLKB/RLMB/RLNB- SERIES

To select an RLKB- Cooling and Heating unit to meet a job requirement, follow this procedure, with example, using data supplied in this specification sheet.

1. DETERMINE COOLING AND HEATING REQUIREMENTS AND SPECIFIC OPERATING CONDITIONS FROM PLANS AND SPECS.

Example:

Total cooling capacity—	205,000 BTUH [60.1 kW]
Sensible cooling capacity—	155,000 BTUH [45.4 kW]
Heating capacity—	235,000 BTUH [68.9 kW]
*Condenser Entering Air—	95°F [35°C] DB
*Evaporator Mixed Air Entering—	65°F [18°C] WB; 78°F [26°C] DB
*Indoor Air Flow (vertical)—	7200 CFM [3398 L/s]
*External Static Pressure—	.70 in. WG

2. SELECT UNIT TO MEET COOLING REQUIREMENTS.

Since total cooling is within the range of a nominal 20 ton [70.3 kW] unit, enter cooling performance table at 95°F [35°C] DB condenser inlet air. Interpolate between 63°F [2°C] and 67°F [19°C] to determine total and sensible capacity and power input for 65°F [18°C] WB evap inlet air at 7400 CFM [1888 L/s] indoor air flow (table basis):

Total Capacity = 232,700 BTUH [68.2 kW]
Sensible Capacity = 186,500 BTUH [54.66 kW]
Power Input (Compressor and Cond. Fans) = 21,600 watts

Use formula in note ① to determine sensible capacity at 78°F [26°C] DB evaporator entering air:

Sensible Capacity = 172,500 BTUH [50.55 kW]

3. CORRECT CAPACITIES OF STEP 2 FOR ACTUAL AIR FLOW.

Select factors from airflow correction table at 7200 CFM [3398 L/s] and apply to data obtained in step 2 to obtain gross capacity:

Total Capacity, 232,700 x .995 = 231,540 BTUH [67.86 kW]
Sensible Capacity, 172,500 x .987 = 170,260 BTUH [49.90 kW]
Power Input 21,600 x .999 = 21,578 Watts

These are Gross Capacities, not corrected for blower motor heat or power.

4. DETERMINE BLOWER SPEED AND WATTS TO MEET SYSTEM DESIGN.

Enter Indoor Blower performance table at 7200 CFM [3398 L/s]. Total ESP (external static pressure) per the spec of .70 in. includes the system duct and grilles. Add from the table "Component Air Resistance," .15 for wet coil, .05 for downflow air flow, for a total selection static pressure of .900 (.9) inches of water, and determine:

RPM = 942
WATTS = 4,717
DRIVE = M (standard 7.5 H.P. motor)

5. CALCULATE INDOOR BLOWER BTUH HEAT EFFECT FROM MOTOR WATTS, STEP 4.

BTUH = 4,717 x 3.412 = 16,094

6. CALCULATE NET COOLING CAPACITIES, EQUAL TO GROSS CAPACITY, STEP 3, MINUS INDOOR BLOWER MOTOR HEAT.

Net Total Capacity = 231,540 – 16,094 = 215,446 BTUH [63.14 kW]

Net Sensible Capacity = 170,260 – 16,094 = 154,166 BTUH [45.18 kW]

7. CALCULATE UNIT INPUT AND JOB EER.

Total Power Input = 21,578 (step 3) + 4,717 (step 4) = 26,295 Watts

$$EER = \frac{\text{Net Total BTUH [kW] (step 6)}}{\text{Power Input, Watts (above)}} = \frac{215,446}{26,295} = 8.19$$

8. SELECT UNIT HEATING CAPACITY.

From Heater Kit Table select kW to meet heating capacity requirement:

Required Heating Capacity = 235,000 BTUH [68.9 kW]
Use 75 kW Heater Kit

*NOTE: These operating conditions are typical of a commercial application in a 95°F/79°F [35°C/26°C] design area with indoor design of 76°F [24°C] DB and 50% RH and 10% ventilation air, with the unit roof mounted and centered on the zone it conditions by ducts.

[ ] Designates Metric Conversions

MODEL IDENTIFICATION—RLKB/RLMB/RLNB- SERIES

R L K B — A 180 C L 000 X X X

- Economizer Option (See Next Page)
- Factory Installed Options (See Next Page)
- Electric Heat
  - 000 = No Resistance Heat
  - 020 = 20 kW Resistance Heat
  - 040 = 40 kW Resistance Heat
  - 060 = 60 kW Resistance Heat
  - 075 = 75 kW Resistance Heat
- Drive Package
  - L = Belt Drive
  - M = Belt Drive—High Static
- Electrical Designation
  - C = 208-230 V, 3 PH, 60 Hz
  - D = 460 V, 3 PH, 60 Hz
  - Y = 575 V, 3 PH, 60 Hz
- Cooling Capacity (BTUH) [kW]
  - 180 = 180,000 [52.75]
  - 240 = 240,000 [70.34]
  - 300 = 300,000 [87.92]
- Future Technical Variations
- Design Series
  - B = “B Series Cabinet”
- Efficiency Designation
  - K = Standard Efficiency
  - M = High Efficiency
  - N = Super High Efficiency
- Product Classification
  - L = Packaged Air Conditioner–Commercial
- Tradebrand
  - R = Rheem

[ ] Designates Metric Conversions

FACTORY INSTALLED OPTION CODES FOR RLKB, RLMB & RLNB (15-25 TON) [52.8-87.9 kW] (A180, A240, A300)

Option Code	Low Ambient Time Delay Freeze Stat	Unwired Convenience Outlet
AA	NO OPTIONS	
AF	x	
AG		x
BM	x	x

Example: RLKB-A090CL000E**XX**X *(where **XX** is factory installed option)*
Example: No Options
RLKB-A180CL000
Example: No option with factory installed economizer
RLKB-A180CL000AAB
Example: Options with low ambient, time delay and freeze stat with no factory installed economizer
RLKB-A180CL000AFA
Example: Options same as above with factory installed economizer
RLKB-A180CL000AFB

ECONOMIZER SELECTION FOR RLKB, RLMB & RLNB

	No Economizer	Single Enthalpy Economizer With Barometric Relief
A	x	
B		x

"x" indicates factory installed option.

Instructions for Factory Installed Option(s) Selection

Note: Three characters following the model number will be utilized to designate a factory-installed option or combination of options. If no factory option(s) is required, nothing follows the model number.

Step 1. After a basic rooftop model is selected, choose a *two-character* option code from the FACTORY INSTALLED OPTION SELECTION TABLE.

Proceed to Step 2.

Step 2. The last option code character is utilized for factory-installed economizers. Choose a character from the FACTORY INSTALLED ECONOMIZER SELECTION TABLE.

NOM. SIZES 15-25 TONS [52.8-87.9 kW] ASHRAE 90.1-1989 COMPLIANT MODELS

Model RLKB- Series	A180CL	A180CM	A180DL	A180DM
Cooling Performance[1]				CONTINUED →
Gross Cooling Capacity Btu [kW]	188,000 [55.1]	188,000 [55.1]	188,000 [55.1]	188,000 [55.1]
EER/SEER[2]	9/NA	9/NA	9/NA	9/NA
Nominal CFM/ARI Rated CFM [L/s]	6000/6000 [2831/2831]	6000/6000 [2831/2831]	6000/6000 [2831/2831]	6000/6000 [2831/2831]
ARI Net Cooling Capacity Btu [kW]	180,000 [52.7]	180,000 [52.7]	180,000 [52.7]	180,000 [52.7]
Net Sensible Capacity Btu [kW]	134,000 [39.3]	134,000 [39.3]	134,000 [39.3]	134,000 [39.3]
Net Latent Capacity Btu [kW]	46,000 [13.5]	46,000 [13.5]	46,000 [13.5]	46,000 [13.5]
Integrated Part Load Value[3]	9.9	9.9	9.9	9.9
Net System Power kW	20	20	20	20
Compressor				
No./Type	4/Copeland Scroll	4/Copeland Scroll	4/Copeland Scroll	4/Copeland Scroll
Outdoor Sound Rating (dB)[4]	91	91	91	91
Outdoor Coil—Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	Rifled	Rifled	Rifled	Rifled
Tube Size in. [mm] OD	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Face Area sq. ft. [sq. m]	36 [3.34]	36 [3.34]	36 [3.34]	36 [3.34]
Rows / FPI [FPcm]	1 / 22 [9]	1 / 22 [9]	1 / 22 [9]	1 / 22 [9]
Indoor Coil—Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	Rifled	Rifled	Rifled	Rifled
Tube Size in. [mm]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Face Area sq. ft. [sq. m]	15.75 [1.46]	15.75 [1.46]	15.75 [1.46]	15.75 [1.46]
Rows / FPI [FPcm]	4 / 13 [5]	4 / 13 [5]	4 / 13 [5]	4 / 13 [5]
Refrigerant Control	Capillary Tubes	Capillary Tubes	Capillary Tubes	Capillary Tubes
Drain Connection No./Size in. [mm]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]
Outdoor Fan—Type	Propeller	Propeller	Propeller	Propeller
No. Used/Diameter in. [mm]	4/24 [609.6]	4/24 [609.6]	4/24 [609.6]	4/24 [609.6]
Drive Type/No. Speeds	Direct/1	Direct/1	Direct/1	Direct/1
CFM [L/s]	16000 [7550]	16000 [7550]	16000 [7550]	16000 [7550]
No. Motors/HP	4 at 1/3 HP	4 at 1/3 HP	4 at 1/3 HP	4 at 1/3 HP
Motor RPM	1075	1075	1075	1075
Indoor Fan—Type	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
No. Used/Diameter in. [mm]	2/18x9 [457.2x228.6]	2/18x9 [457.2x228.6]	2/18x9 [457.2x228.6]	2/18x9 [457.2x228.6]
Drive Type/No. Speeds	Belt/Variable	Belt/Variable	Belt/Variable	Belt/Variable
No. Motors	1	1	1	1
Motor HP	3	5	3	5
Motor RPM	1725	1725	1725	1725
Motor Frame Size	56	184	56	184
Filter—Type	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(No.) Size Recommended in. [mm]	(3)2x18x18 [51x457x457] (3)2x18x24 [51x457x610]	(3)2x18x18 [51x457x457] (3)2x18x24 [51x457x610]	(3)2x18x18 [51x457x457] (3)2x18x24 [51x457x610]	(3)2x18x18 [51x457x457] (3)2x18x24 [51x457x610]
Refrigerant Charge Oz. (Sys. 1/Sys. 2) [g]	82/72 [2325/2041]	82/72 [2325/2041]	82/72 [2325/2041]	82/72 [2325/2041]
Weights				
Net Weight lbs. [kg]	1589 [720]	1619 [734]	1589 [720]	1619 [734]
Ship Weight lbs. [kg]	1639 [743]	1699 [757]	1639 [743]	1669 [757]

See Page 20 for Notes.

[ ] Designates Metric Conversions

NOM. SIZES 15-25 TONS [52.8-87.9 kW] ASHRAE 90.1-1989 COMPLIANT MODELS

Model RLKB- Series	A180YL	A180YM
Cooling Performance[1]		
Gross Cooling Capacity Btu [kW]	188,000 [55.1]	188,000 [55.1]
EER/SEER[2]	9/NA	9/NA
Nominal CFM/ARI Rated CFM [L/s]	6000/6000 [2831/2831]	6000/6000 [2831/2831]
ARI Net Cooling Capacity Btu [kW]	180,000 [52.7]	180,000 [52.7]
Net Sensible Capacity Btu [kW]	134,000 [39.3]	134,000 [39.3]
Net Latent Capacity Btu [kW]	46,000 [13.5]	46,000 [13.5]
Integrated Part Load Value[3]	9.9	9.9
Net System Power kW	20	20
Compressor		
No./Type	4/Copeland Scroll	4/Copeland Scroll
Outdoor Sound Rating (dB)[4]	91	91
Outdoor Coil—Fin Type	Louvered	Louvered
Tube Type	Rifled	Rifled
Tube Size in. [mm] OD	0.375 [9.5]	0.375 [9.5]
Face Area sq. ft. [sq. m]	36 [3.34]	36 [3.34]
Rows / FPI [FPcm]	1 / 22 [9]	1 / 22 [9]
Indoor Coil—Fin Type	Louvered	Louvered
Tube Type	Rifled	Rifled
Tube Size in. [mm]	0.375 [9.5]	0.375 [9.5]
Face Area sq. ft. [sq. m]	15.75 [1.46]	15.75 [1.46]
Rows / FPI [FPcm]	4 / 13 [5]	4 / 13 [5]
Refrigerant Control	Capillary Tubes	Capillary Tubes
Drain Connection No./Size in. [mm]	1/1 [25.4]	1/1 [25.4]
Outdoor Fan—Type	Propeller	Propeller
No. Used/Diameter in. [mm]	4/24 [609.6]	4/24 [609.6]
Drive Type/No. Speeds	Direct/1	Direct/1
CFM [L/s]	16000 [7550]	16000 [7550]
No. Motors/HP	4 at 1/3 HP	4 at 1/3 HP
Motor RPM	1075	1075
Indoor Fan—Type	FC Centrifugal	FC Centrifugal
No. Used/Diameter in. [mm]	2/18x9 [457.2x228.6]	2/18x9 [457.2x228.6]
Drive Type/No. Speeds	Belt/Variable	Belt/Variable
No. Motors	1	1
Motor HP	3	5
Motor RPM	1725	1725
Motor Frame Size	56	184
Filter—Type	Disposable	Disposable
Furnished	Yes	Yes
(No.) Size Recommended in. [mm]	(3)2x18x18 [51x457x457]	(3)2x18x18 [51x457x457]
	(3)2x18x24 [51x457x610]	(3)2x18x24 [51x457x610]
Refrigerant Charge Oz. (Sys. 1/Sys. 2) [g]	82/72 [2325/2041]	82/72 [2325/2041]
Weights		
Net Weight lbs. [kg]	1589 [720]	1619 [734]
Ship Weight lbs. [kg]	1639 [743]	1669 [757]

See Page 20 for Notes.

[ ] Designates Metric Conversions

NOM. SIZES 15-25 TONS [52.8-87.9 kW] ASHRAE 90.1-1989 COMPLIANT MODELS

Model RLKB- Series	A240CL	A240CM	A240DL	A240DM
Cooling Performance[1]				CONTINUED →
Gross Cooling Capacity Btu [kW]	242,000 [70.9]	242,000 [70.9]	242,000 [70.9]	242,000 [70.9]
EER/SEER[2]	8.7/NA	8.7/NA	8.7/NA	8.7/NA
Nominal CFM/ARI Rated CFM [L/s]	7600/7400 [3586/3492]	7600/7400 [3586/3492]	7600/7400 [3586/3492]	7600/7400 [3586/3492]
ARI Net Cooling Capacity Btu [kW]	228,000 [66.8]	228,000 [66.8]	228,000 [66.8]	228,000 [66.8]
Net Sensible Capacity Btu [kW]	164,000 [48.1]	164,000 [48.1]	164,000 [48.1]	164,000 [48.1]
Net Latent Capacity Btu [kW]	64,000 [18.8]	64,000 [18.8]	64,000 [18.8]	64,000 [18.8]
Integrated Part Load Value[3]	8.8	8.8	8.8	8.8
Net System Power kW	26.2	26.2	26.2	26.2
Compressor				
No./Type	4/Copeland Scroll	4/Copeland Scroll	4/Copeland Scroll	4/Copeland Scroll
Outdoor Sound Rating (dB)[4]	91	91	91	91
Outdoor Coil—Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	Rifled	Rifled	Rifled	Rifled
Tube Size in. [mm] OD	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Face Area sq. ft. [sq. m]	36 [3.34]	36 [3.34]	36 [3.34]	36 [3.34]
Rows / FPI [FPcm]	1 / 22 [9]	1 / 22 [9]	1 / 22 [9]	1 / 22 [9]
Indoor Coil—Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	Rifled	Rifled	Rifled	Rifled
Tube Size in. [mm]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Face Area sq. ft. [sq. m]	15.75 [1.46]	15.75 [1.46]	15.75 [1.46]	15.75 [1.46]
Rows / FPI [FPcm]	4 / 13 [5]	4 / 13 [5]	4 / 13 [5]	4 / 13 [5]
Refrigerant Control	Capillary Tubes	Capillary Tubes	Capillary Tubes	Capillary Tubes
Drain Connection No./Size in. [mm]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]
Outdoor Fan—Type	Propeller	Propeller	Propeller	Propeller
No. Used/Diameter in. [mm]	4/24 [609.6]	4/24 [609.6]	4/24 [609.6]	4/24 [609.6]
Drive Type/No. Speeds	Direct/1	Direct/1	Direct/1	Direct/1
CFM [L/s]	16000 [7550]	16000 [7550]	16000 [7550]	16000 [7550]
No. Motors/HP	4 at 1/3 HP	4 at 1/3 HP	4 at 1/3 HP	4 at 1/3 HP
Motor RPM	1075	1075	1075	1075
Indoor Fan—Type	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
No. Used/Diameter in. [mm]	2/18x9 [457.2x228.6]	2/18x9 [457.2x228.6]	2/18x9 [457.2x228.6]	2/18x9 [457.2x228.6]
Drive Type/No. Speeds	Belt/Variable	Belt/Variable	Belt/Variable	Belt/Variable
No. Motors	1	1	1	1
Motor HP	5	7.5	5	7.5
Motor RPM	1725	1725	1725	1725
Motor Frame Size	184	213	184	213
Filter—Type	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(No.) Size Recommended in. [mm]	(3)2x18x18 [51x457x457] (3)2x18x24 [51x457x610]	(3)2x18x18 [51x457x457] (3)2x18x24 [51x457x610]	(3)2x18x18 [51x457x457] (3)2x18x24 [51x457x610]	(3)2x18x18 [51x457x457] (3)2x18x24 [51x457x610]
Refrigerant Charge Oz. (Sys. 1/Sys. 2) [g]	77/72 [2183/2041]	77/72 [2183/2041]	77/72 [2183/2041]	77/72 [2183/2041]
Weights				
Net Weight lbs. [kg]	1667 [756]	1688 [765]	1667 [756]	1688 [765]
Ship Weight lbs. [kg]	1717 [778]	1738 [788]	1717 [778]	1738 [788]

See Page 20 for Notes.

[ ] Designates Metric Conversions

NOM. SIZES 15-25 TONS [52.8-87.9 kW] ASHRAE 90.1-1989 COMPLIANT MODELS

Model RLKB- Series	A240YL	A240YM	A300CL	A300CM
Cooling Performance[1]				CONTINUED →
Gross Cooling Capacity Btu [kW]	242,000 [70.9]	242,000 [70.9]	300,000 [87.9]	300,000 [87.9]
EER/SEER[2]	8.7/NA	8.7/NA	8.9/NA	8.9/NA
Nominal CFM/ARI Rated CFM [L/s]	7600/7400 [3586/3492]	7600/7400 [3586/3492]	9400/8400 [4436/3964]	9400/8400 [4436/3964]
ARI Net Cooling Capacity Btu [kW]	228,000 [66.8]	228,000 [66.8]	282,000 [82.6]	282,000 [82.6]
Net Sensible Capacity Btu [kW]	164,000 [48.1]	164,000 [48.1]	194,000 [56.8]	194,000 [56.8]
Net Latent Capacity Btu [kW]	64,000 [18.8]	64,000 [18.8]	88,000 [25.8]	88,000 [25.8]
Integrated Part Load Value[3]	8.8	8.8	9	9
Net System Power kW	26.2	26.2	31.7	31.7
Compressor				
No./Type	4/Copeland Scroll	4/Copeland Scroll	4/Copeland Scroll	4/Copeland Scroll
Outdoor Sound Rating (dB)[4]	91	91	92	92
Outdoor Coil—Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	Rifled	Rifled	Rifled	Rifled
Tube Size in. [mm] OD	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Face Area sq. ft. [sq. m]	36 [3.34]	36 [3.34]	36 [3.34]	36 [3.34]
Rows / FPI [FPcm]	1 / 22 [9]	1 / 22 [9]	2 / 22 [9]	2 / 22 [9]
Indoor Coil—Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	Rifled	Rifled	Rifled	Rifled
Tube Size in. [mm]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Face Area sq. ft. [sq. m]	15.75 [1.46]	15.75 [1.46]	15.75 [1.46]	15.75 [1.46]
Rows / FPI [FPcm]	4 / 13 [5]	4 / 13 [5]	4 / 13 [5]	4 / 13 [5]
Refrigerant Control	Capillary Tubes	Capillary Tubes	Capillary Tubes	Capillary Tubes
Drain Connection No./Size in. [mm]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]
Outdoor Fan—Type	Propeller	Propeller	Propeller	Propeller
No. Used/Diameter in. [mm]	4/24 [609.6]	4/24 [609.6]	4/24 [609.6]	4/24 [609.6]
Drive Type/No. Speeds	Direct/1	Direct/1	Direct/1	Direct/1
CFM [L/s]	16000 [7550]	16000 [7550]	16000 [7550]	16000 [7550]
No. Motors/HP	4 at 1/3 HP	4 at 1/3 HP	4 at 1/2 HP	4 at 1/2 HP
Motor RPM	1075	1075	1075	1075
Indoor Fan—Type	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
No. Used/Diameter in. [mm]	2/18x9 [457.2x228.6]	2/18x9 [457.2x228.6]	2/18x9 [457.2x228.6]	2/18x9 [457.2x228.6]
Drive Type/No. Speeds	Belt/Variable	Belt/Variable	Belt/Variable	Belt/Variable
No. Motors	1	1	1	1
Motor HP	5	7.5	5	7.5
Motor RPM	1725	1725	1725	1725
Motor Frame Size	184	213	184	213
Filter—Type	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(No.) Size Recommended in. [mm]	(3)2x18x18 [51x457x457] (3)2x18x24 [51x457x610]	(3)2x18x18 [51x457x457] (3)2x18x24 [51x457x610]	(3)2x18x18 [51x457x457] (3)2x18x24 [51x457x610]	(3)2x18x18 [51x457x457] (3)2x18x24 [51x457x610]
Refrigerant Charge Oz. (Sys. 1/Sys. 2) [g]	77/72 [2183/2041]	77/72 [2183/2041]	128/121 [3629/3430]	128/121 [3629/3430]
Weights				
Net Weight lbs. [kg]	1667 [756]	1688 [765]	1820 [826]	1841 [835]
Ship Weight lbs. [kg]	1717 [778]	1738 [788]	2040 [925]	2061 [935]

See Page 20 for Notes.

[ ] Designates Metric Conversions

NOM. SIZES 15-25 TONS [52.8-87.9 kW] ASHRAE 90.1-1989 COMPLIANT MODELS

Model RLKB- Series	A300DL	A300DM	A300YL	A300YM
Cooling Performance[1]				
Gross Cooling Capacity Btu [kW]	300,000 [87.9]	300,000 [87.9]	300,000 [87.9]	300,000 [87.9]
EER/SEER[2]	8.9/NA	8.9/NA	8.9/NA	8.9/NA
Nominal CFM/ARI Rated CFM [L/s]	9400/8400 [4436/3964]	9400/8400 [4436/3964]	9400/8400 [4436/3964]	9400/8400 [4436/3964]
ARI Net Cooling Capacity Btu [kW]	282,000 [82.6]	282,000 [82.6]	282,000 [82.6]	282,000 [82.6]
Net Sensible Capacity Btu [kW]	194,000 [56.8]	194,000 [56.8]	194,000 [56.8]	194,000 [56.8]
Net Latent Capacity Btu [kW]	88,000 [25.8]	88,000 [25.8]	88,000 [25.8]	88,000 [25.8]
Integrated Part Load Value[3]	9	9	9	9
Net System Power kW	31.7	31.7	31.7	31.7
Compressor				
No./Type	4/Copeland Scroll	4/Copeland Scroll	4/Copeland Scroll	4/Copeland Scroll
Outdoor Sound Rating (dB)[4]	92	92	92	92
Outdoor Coil—Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	Rifled	Rifled	Rifled	Rifled
Tube Size in. [mm] OD	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Face Area sq. ft. [sq. m]	36 [3.34]	36 [3.34]	36 [3.34]	36 [3.34]
Rows / FPI [FPcm]	2 / 22 [9]	2 / 22 [9]	2 / 22 [9]	2 / 22 [9]
Indoor Coil—Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	Rifled	Rifled	Rifled	Rifled
Tube Size in. [mm]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Face Area sq. ft. [sq. m]	15.75 [1.46]	15.75 [1.46]	15.75 [1.46]	15.75 [1.46]
Rows / FPI [FPcm]	4 / 13 [5]	4 / 13 [5]	4 / 13 [5]	4 / 13 [5]
Refrigerant Control	Capillary Tubes	Capillary Tubes	Capillary Tubes	Capillary Tubes
Drain Connection No./Size in. [mm]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]
Outdoor Fan—Type	Propeller	Propeller	Propeller	Propeller
No. Used/Diameter in. [mm]	4/24 [609.6]	4/24 [609.6]	4/24 [609.6]	4/24 [609.6]
Drive Type/No. Speeds	Direct/1	Direct/1	Direct/1	Direct/1
CFM [L/s]	16000 [7550]	16000 [7550]	16000 [7550]	16000 [7550]
No. Motors/HP	4 at 1/2 HP	4 at 1/2 HP	4 at 1/2 HP	4 at 1/2 HP
Motor RPM	1075	1075	1075	1075
Indoor Fan—Type	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
No. Used/Diameter in. [mm]	2/18x9 [457.2x228.6]	2/18x9 [457.2x228.6]	2/18x9 [457.2x228.6]	2/18x9 [457.2x228.6]
Drive Type/No. Speeds	Belt/Variable	Belt/Variable	Belt/Variable	Belt/Variable
No. Motors	1	1	1	1
Motor HP	5	7.5	5	7.5
Motor RPM	1725	1725	1725	1725
Motor Frame Size	184	213	184	213
Filter—Type	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(No.) Size Recommended in. [mm]	(3)2x18x18 [51x457x457] (3)2x18x24 [51x457x610]	(3)2x18x18 [51x457x457] (3)2x18x24 [51x457x610]	(3)2x18x18 [51x457x457] (3)2x18x24 [51x457x610]	(3)2x18x18 [51x457x457] (3)2x18x24 [51x457x610]
Refrigerant Charge Oz. (Sys. 1/Sys. 2) [g]	128/121 [3629/3430]	128/121 [3629/3430]	128/121 [3629/3430]	128/121 [3629/3430]
Weights				
Net Weight lbs. [kg]	1820 [826]	1841 [835]	1820 [826]	1841 [835]
Ship Weight lbs. [kg]	2040 [925]	2061 [935]	2040 [925]	2061 [935]

See Page 20 for Notes.

[ ] Designates Metric Conversions

NOM. SIZES 15 & 20 TONS [52.8 & 70.3 kW] ASHRAE 90.1-1999 COMPLIANT MODELS

Model RLMB- Series	A180CL	A180CM	A180DL	A180DM
Cooling Performance[1]				CONTINUED →
Gross Cooling Capacity Btu [kW]	188,000 [55.1]	188,000 [55.1]	188,000 [55.1]	188,000 [55.1]
EER/SEER[2]	10.2/NA	10.2/NA	10.2/NA	10.2/NA
Nominal CFM/ARI Rated CFM [L/s]	6000/6000 [2831/2831]	6000/6000 [2831/2831]	6000/6000 [2831/2831]	6000/6000 [2831/2831]
ARI Net Cooling Capacity Btu [kW]	180,000 [52.7]	180,000 [52.7]	180,000 [52.7]	180,000 [52.7]
Net Sensible Capacity Btu [kW]	134,000 [39.3]	134,000 [39.3]	134,000 [39.3]	134,000 [39.3]
Net Latent Capacity Btu [kW]	46,000 [13.5]	46,000 [13.5]	46,000 [13.5]	46,000 [13.5]
Integrated Part Load Value[3]	10.4	10.4	10.4	10.4
Net System Power kW	17.6	17.6	17.6	17.6
Compressor				
No./Type	4/Copeland Scroll	4/Copeland Scroll	4/Copeland Scroll	4/Copeland Scroll
Outdoor Sound Rating (dB)[4]	91	91	91	91
Outdoor Coil—Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	Rifled	Rifled	Rifled	Rifled
Tube Size in. [mm] OD	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Face Area sq. ft. [sq. m]	36 [3.34]	36 [3.34]	36 [3.34]	36 [3.34]
Rows / FPI [FPcm]	1 / 22 [9]	1 / 22 [9]	1 / 22 [9]	1 / 22 [9]
Indoor Coil—Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	Rifled	Rifled	Rifled	Rifled
Tube Size in. [mm]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Face Area sq. ft. [sq. m]	15.75 [1.46]	15.75 [1.46]	15.75 [1.46]	15.75 [1.46]
Rows / FPI [FPcm]	4 / 13 [5]	4 / 13 [5]	4 / 13 [5]	4 / 13 [5]
Refrigerant Control	Capillary Tubes	Capillary Tubes	Capillary Tubes	Capillary Tubes
Drain Connection No./Size in. [mm]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]
Outdoor Fan—Type	Propeller	Propeller	Propeller	Propeller
No. Used/Diameter in. [mm]	4/24 [609.6]	4/24 [609.6]	4/24 [609.6]	4/24 [609.6]
Drive Type/No. Speeds	Direct/1	Direct/1	Direct/1	Direct/1
CFM [L/s]	16000 [7550]	16000 [7550]	16000 [7550]	16000 [7550]
No. Motors/HP	4 at 1/3 HP	4 at 1/3 HP	4 at 1/3 HP	4 at 1/3 HP
Motor RPM	1075	1075	1075	1075
Indoor Fan—Type	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
No. Used/Diameter in. [mm]	2/18x9 [457.2x228.6]	2/18x9 [457.2x228.6]	2/18x9 [457.2x228.6]	2/18x9 [457.2x228.6]
Drive Type/No. Speeds	Belt/Variable	Belt/Variable	Belt/Variable	Belt/Variable
No. Motors	1	1	1	1
Motor HP	3	5	3	5
Motor RPM	1725	1725	1725	1725
Motor Frame Size	56	184	56	184
Filter—Type	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(No.) Size Recommended in. [mm]	(3)2x18x18 [51x457x457] (3)2x18x24 [51x457x610]	(3)2x18x18 [51x457x457] (3)2x18x24 [51x457x610]	(3)2x18x18 [51x457x457] (3)2x18x24 [51x457x610]	(3)2x18x18 [51x457x457] (3)2x18x24 [51x457x610]
Refrigerant Charge Oz. (Sys. 1/Sys. 2) [g]	82/72 [2325/2041]	82/72 [2325/2041]	82/72 [2325/2041]	82/72 [2325/2041]
Weights				
Net Weight lbs. [kg]	1589 [720]	1619 [734]	1589 [720]	1619 [734]
Ship Weight lbs. [kg]	1639 [743]	1669 [751]	1639 [743]	1669 [757]

See Page 20 for Notes.

[ ] Designates Metric Conversions

NOM. SIZES 15 & 20 TONS [52.8 & 70.3 kW] ASHRAE 90.1-1999 COMPLIANT MODELS

Model RLMB- Series	A180YL	A180YM	A240CL	A240CM
Cooling Performance[1]				CONTINUED →
Gross Cooling Capacity Btu [kW]	188,000 [55.1]	188,000 [55.1]	246,000 [72.1]	246,000 [72.1]
EER/SEER[2]	10.2/NA	10.2/NA	9.7/NA	9.7/NA
Nominal CFM/ARI Rated CFM [L/s]	6000/6000 [2831/2831]	6000/6000 [2831/2831]	7700/7400 [3634/3492]	7700/7400 [3634/3492]
ARI Net Cooling Capacity Btu [kW]	180,000 [52.7]	180,000 [52.7]	232,000 [68]	232,000 [68]
Net Sensible Capacity Btu [kW]	134,000 [39.3]	134,000 [39.3]	168,000 [49.2]	168,000 [49.2]
Net Latent Capacity Btu [kW]	46,000 [13.5]	46,000 [13.5]	64,000 [18.8]	64,000 [18.8]
Integrated Part Load Value[3]	10.4	10.4	9.9	9.9
Net System Power kW	17.6	17.6	23.9	23.9
Compressor				
No./Type	4/Copeland Scroll	4/Copeland Scroll	4/Copeland Scroll	4/Copeland Scroll
Outdoor Sound Rating (dB)[4]	91	91	91	91
Outdoor Coil—Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	Rifled	Rifled	Rifled	Rifled
Tube Size in. [mm] OD	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Face Area sq. ft. [sq. m]	36 [3.34]	36 [3.34]	36 [3.34]	36 [3.34]
Rows / FPI [FPcm]	1 / 22 [9]	1 / 22 [9]	2 / 22 [9]	2 / 22 [9]
Indoor Coil—Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	Rifled	Rifled	Rifled	Rifled
Tube Size in. [mm]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Face Area sq. ft. [sq. m]	15.75 [1.46]	15.75 [1.46]	15.75 [1.46]	15.75 [1.46]
Rows / FPI [FPcm]	4 / 13 [5]	4 / 13 [5]	4 / 13 [5]	4 / 13 [5]
Refrigerant Control	Capillary Tubes	Capillary Tubes	Capillary Tubes	Capillary Tubes
Drain Connection No./Size in. [mm]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]
Outdoor Fan—Type	Propeller	Propeller	Propeller	Propeller
No. Used/Diameter in. [mm]	4/24 [609.6]	4/24 [609.6]	4/24 [609.6]	4/24 [609.6]
Drive Type/No. Speeds	Direct/1	Direct/1	Direct/1	Direct/1
CFM [L/s]	16000 [7550]	16000 [7550]	16000 [7550]	16000 [7550]
No. Motors/HP	4 at 1/3 HP	4 at 1/3 HP	4 at 1/3 HP	4 at 1/3 HP
Motor RPM	1075	1075	1075	1075
Indoor Fan—Type	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
No. Used/Diameter in. [mm]	2/18x9 [457.2x228.6]	2/18x9 [457.2x228.6]	2/18x9 [457.2x228.6]	2/18x9 [457.2x228.6]
Drive Type/No. Speeds	Belt/Variable	Belt/Variable	Belt/Variable	Belt/Variable
No. Motors	1	1	1	1
Motor HP	3	5	5	7.5
Motor RPM	1725	1725	1725	1725
Motor Frame Size	56	184	184	213
Filter—Type	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(No.) Size Recommended in. [mm]	(3)2x18x18 [51x457x457] (3)2x18x24 [51x457x610]	(3)2x18x18 [51x457x457] (3)2x18x24 [51x457x610]	(3)2x18x18 [51x457x457] (3)2x18x24 [51x457x610]	(3)2x18x18 [51x457x457] (3)2x18x24 [51x457x610]
Refrigerant Charge Oz. (Sys. 1/Sys. 2) [g]	82/72 [2325/2041]	82/72 [2325/2041]	72/72 [2183/2041]	72/72 [2183/2041]
Weights				
Net Weight lbs. [kg]	1589 [720]	1619 [734]	1667 [756]	1688 [765]
Ship Weight lbs. [kg]	1639 [743]	1669 [757]	1717 [778]	1738 [788]

See Page 20 for Notes.

[ ] Designates Metric Conversions

NOM. SIZES 15 & 20 TONS [52.8 & 70.3 kW] ASHRAE 90.1-1999 COMPLIANT MODELS

Model RLMB- Series	A240DL	A240DM	A240YL	A240YM
Cooling Performance[1]				
Gross Cooling Capacity Btu [kW]	246,000 [72.1]	246,000 [72.1]	246,000 [72.1]	246,000 [72.1]
EER/SEER[2]	9.7/NA	9.7/NA	9.7/NA	9.7/NA
Nominal CFM/ARI Rated CFM [L/s]	7700/7400 [3634/3492]	7700/7400 [3634/3492]	7700/7400 [3634/3492]	7700/7400 [3634/3492]
ARI Net Cooling Capacity Btu [kW]	232,000 [68]	232,000 [68]	232,000 [68]	232,000 [68]
Net Sensible Capacity Btu [kW]	168,000 [49.2]	168,000 [49.2]	168,000 [49.2]	168,000 [49.2]
Net Latent Capacity Btu [kW]	64,000 [18.8]	64,000 [18.8]	64,000 [18.8]	64,000 [18.8]
Integrated Part Load Value[3]	9.9	9.9	9.9	9.9
Net System Power kW	23.9	23.9	23.9	23.9
Compressor				
No./Type	4/Copeland Scroll	4/Copeland Scroll	4/Copeland Scroll	4/Copeland Scroll
Outdoor Sound Rating (dB)[4]	91	91	91	91
Outdoor Coil—Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	Rifled	Rifled	Rifled	Rifled
Tube Size in. [mm] OD	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Face Area sq. ft. [sq. m]	36 [3.34]	36 [3.34]	36 [3.34]	36 [3.34]
Rows / FPI [FPcm]	2 / 22 [9]	2 / 22 [9]	2 / 22 [9]	2 / 22 [9]
Indoor Coil—Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	Rifled	Rifled	Rifled	Rifled
Tube Size in. [mm]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Face Area sq. ft. [sq. m]	15.75 [1.46]	15.75 [1.46]	15.75 [1.46]	15.75 [1.46]
Rows / FPI [FPcm]	4 / 13 [5]	4 / 13 [5]	4 / 13 [5]	4 / 13 [5]
Refrigerant Control	Capillary Tubes	Capillary Tubes	Capillary Tubes	Capillary Tubes
Drain Connection No./Size in. [mm]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]
Outdoor Fan—Type	Propeller	Propeller	Propeller	Propeller
No. Used/Diameter in. [mm]	4/24 [609.6]	4/24 [609.6]	4/24 [609.6]	4/24 [609.6]
Drive Type/No. Speeds	Direct/1	Direct/1	Direct/1	Direct/1
CFM [L/s]	16000 [7550]	16000 [7550]	16000 [7550]	16000 [7550]
No. Motors/HP	4 at 1/3 HP	4 at 1/3 HP	4 at 1/3 HP	4 at 1/3 HP
Motor RPM	1075	1075	1075	1075
Indoor Fan—Type	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
No. Used/Diameter in. [mm]	2/18x9 [457.2x228.6]	2/18x9 [457.2x228.6]	2/18x9 [457.2x228.6]	2/18x9 [457.2x228.6]
Drive Type/No. Speeds	Belt/Variable	Belt/Variable	Belt/Variable	Belt/Variable
No. Motors	1	1	1	1
Motor HP	5	7.5	5	7.5
Motor RPM	1725	1725	1725	1725
Motor Frame Size	184	213	184	213
Filter—Type	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(No.) Size Recommended in. [mm]	(3)2x18x18 [51x457x457] (3)2x18x24 [51x457x610]	(3)2x18x18 [51x457x457] (3)2x18x24 [51x457x610]	(3)2x18x18 [51x457x457] (3)2x18x24 [51x457x610]	(3)2x18x18 [51x457x457] (3)2x18x24 [51x457x610]
Refrigerant Charge Oz. (Sys. 1/Sys. 2) [g]	77/72 [2183/2041]	77/72 [2183/2041]	77/72 [2183/2041]	77/72 [2183/2041]
Weights				
Net Weight lbs. [kg]	1667 [756]	1688 [765]	1667 [756]	1688 [765]
Ship Weight lbs. [kg]	1717 [778]	1738 [788]	1717 [778]	1738 [788]

See Page 20 for Notes.

[ ] Designates Metric Conversions

NOM. SIZE 15 TON [52.8 kW] ENERGYSTAR COMPLIANT MODEL

Model RLNB- Series	A180CL	A180CM	A180DL	A180DM
Cooling Performance[1]				CONTINUED →
Gross Cooling Capacity Btu [kW]	188,000 [55.1]	188,000 [55.1]	188,000 [55.1]	188,000 [55.1]
EER/SEER[2]	11.5/NA	11.5/NA	11.5/NA	11.5/NA
Nominal CFM/ARI Rated CFM [L/s]	6000/5500 [2831/2596]	6000/5500 [2831/2596]	6000/5500 [2831/2596]	6000/5500 [2831/2596]
ARI Net Cooling Capacity Btu [kW]	176,000 [51.5]	176,000 [51.5]	176,000 [51.5]	176,000 [51.5]
Net Sensible Capacity Btu [kW]	129,000 [37.8]	129,000 [37.8]	129,000 [37.8]	129,000 [37.8]
Net Latent Capacity Btu [kW]	47,000 [13.8]	47,000 [13.8]	47,000 [13.8]	47,000 [13.8]
Integrated Part Load Value[3]	12.1	12.1	12.1	12.1
Net System Power kW	17.6	17.6	17.6	17.6
Compressor				
No./Type	2/Copeland Scroll	2/Copeland Scroll	2/Copeland Scroll	2/Copeland Scroll
Outdoor Sound Rating (dB)[5]	91	91	91	91
Outdoor Coil—Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	Rifled	Rifled	Rifled	Rifled
Tube Size in. [mm] OD	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Face Area sq. ft. [sq. m]	36 [3.34]	36 [3.34]	36 [3.34]	36 [3.34]
Rows / FPI [FPcm]	2 / 22 [9]	2 / 22 [9]	2 / 22 [9]	2 / 22 [9]
Indoor Coil—Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	Rifled	Rifled	Rifled	Rifled
Tube Size in. [mm]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Face Area sq. ft. [sq. m]	15.75 [1.46]	15.75 [1.46]	15.75 [1.46]	15.75 [1.46]
Rows / FPI [FPcm]	4 / 13 [5]	4 / 13 [5]	4 / 13 [5]	4 / 13 [5]
Refrigerant Control	Capillary Tubes	Capillary Tubes	Capillary Tubes	Capillary Tubes
Drain Connection No./Size in. [mm]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]
Outdoor Fan—Type	Propeller	Propeller	Propeller	Propeller
No. Used/Diameter in. [mm]	4/24 [609.6]	4/24 [609.6]	4/24 [609.6]	4/24 [609.6]
Drive Type/No. Speeds	Direct/1	Direct/1	Direct/1	Direct/1
CFM [L/s]	16000 [7550]	16000 [7550]	16000 [7550]	16000 [7550]
No. Motors/HP	4 at 1/3 HP	4 at 1/3 HP	4 at 1/3 HP	4 at 1/3 HP
Motor RPM	1075	1075	1075	1075
Indoor Fan—Type	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
No. Used/Diameter in. [mm]	2/15x15 [381x381]	2/15x15 [381x381]	2/15x15 [381x381]	2/15x15 [381x381]
Drive Type/No. Speeds	Belt/Variable	Belt/Variable	Belt/Variable	Belt/Variable
No. Motors	1	1	1	1
Motor HP	3	5	3	5
Motor RPM	1725	1725	1725	1725
Motor Frame Size	56	184	56	184
Filter—Type	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(No.) Size Recommended in. [mm]	(3)2x18x18 [51x457x457] (3)2x18x24 [51x457x610]	(3)2x18x18 [51x457x457] (3)2x18x24 [51x457x610]	(3)2x18x18 [51x457x457] (3)2x18x24 [51x457x610]	(3)2x18x18 [51x457x457] (3)2x18x24 [51x457x610]
Refrigerant Charge Oz. (Sys. 1/Sys. 2) [g]	211/210 [5982/5954]	211/210 [5982/5954]	211/210 [5982/5954]	211/210 [5982/5954]
Weights				
Net Weight lbs. [kg]	1525 [692]	1550 [703]	1525 [692]	1550 [703]
Ship Weight lbs. [kg]	1575 [715]	1600 [726]	1575 [715]	1600 [726]

See Page 20 for Notes.

[ ] Designates Metric Conversions

NOM. SIZE 15 TON [52.8 kW] ENERGYSTAR COMPLIANT MODEL

Model RLNB- Series	A180YL	A180YM
Cooling Performance[1]		
Gross Cooling Capacity Btu [kW]	188,000 [55.1]	188,000 [55.1]
EER/SEER[2]	11.5/NA	11.5/NA
Nominal CFM/ARI Rated CFM [L/s]	6000/5500 [2831/2596]	6000/5500 [2831/2596]
ARI Net Cooling Capacity Btu [kW]	176,000 [51.5]	176,000 [51.5]
Net Sensible Capacity Btu [kW]	129,000 [37.8]	129,000 [37.8]
Net Latent Capacity Btu [kW]	47,000 [13.8]	47,000 [13.8]
Integrated Part Load Value[3]	12.1	12.1
Net System Power kW	17.6	17.6
Compressor		
No./Type	2/Copeland Scroll	2/Copeland Scroll
Outdoor Sound Rating (dB)[5]	91	91
Outdoor Coil—Fin Type	Louvered	Louvered
Tube Type	Rifled	Rifled
Tube Size in. [mm] OD	0.375 [9.5]	0.375 [9.5]
Face Area sq. ft. [sq. m]	36 [3.34]	36 [3.34]
Rows / FPI [FPcm]	2 / 22 [9]	2 / 22 [9]
Indoor Coil—Fin Type	Louvered	Louvered
Tube Type	Rifled	Rifled
Tube Size in. [mm]	0.375 [9.5]	0.375 [9.5]
Face Area sq. ft. [sq. m]	15.75 [1.46]	15.75 [1.46]
Rows / FPI [FPcm]	4 / 13 [5]	4 / 13 [5]
Refrigerant Control	Capillary Tubes	Capillary Tubes
Drain Connection No./Size in. [mm]	1/1 [25.4]	1/1 [25.4]
Outdoor Fan—Type	Propeller	Propeller
No. Used/Diameter in. [mm]	4/24 [609.6]	4/24 [609.6]
Drive Type/No. Speeds	Direct/1	Direct/1
CFM [L/s]	16000 [7550]	16000 [7550]
No. Motors/HP	4 at 1/3 HP	4 at 1/3 HP
Motor RPM	1075	1075
Indoor Fan—Type	FC Centrifugal	FC Centrifugal
No. Used/Diameter in. [mm]	2/15x15 [381x381]	2/15x15 [381x381]
Drive Type/No. Speeds	Belt/Variable	Belt/Variable
No. Motors	1	1
Motor HP	3	5
Motor RPM	1725	1725
Motor Frame Size	56	184
Filter—Type	Disposable	Disposable
Furnished	Yes	Yes
(No.) Size Recommended in. [mm]	(3)2x18x18 [51x457x457] (3)2x18x24 [51x457x610]	(3)2x18x18 [51x457x457] (3)2x18x24 [51x457x610]
Refrigerant Charge Oz. (Sys. 1/Sys. 2) [g]	211/210 [5982/5954]	211/210 [5982/5954]
Weights		
Net Weight lbs. [kg]	1525 [692]	1550 [703]
Ship Weight lbs. [kg]	1575 [715]	1600 [726]

See Page 20 for Notes.

[ ] Designates Metric Conversions

NOTES:

1. Cooling Performance is rated at 95° F ambient, 80° F entering dry bulb, 67° F entering wet bulb. Gross capacity does not include the effect of fan motor heat. ARI capacity is net and includes the effect of fan motor heat. Units are suitable for operation to ±20% of nominal cfm. Units are certified in accordance with the Unitary Air Conditioner Equipment certification program, which is based on ARI Standard 210/240 or 360.
2. EER and/or SEER are rated at ARI conditions and in accordance with DOE test procedures.
3. Integrated Part Load Value is rated in accordance with ARI Standard 210/240 or 360. Units are rated at 80° F ambient, 80° F entering dry bulb, and 67° F entering wet bulb at ARI rated cfm.
4. Outdoor Sound Rating shown is tested in accordance with ARI Standard 270.

[ ] Designates Metric Conversions

GROSS SYSTEMS PERFORMANCE DATA—A180

ENTERING INDOOR AIR @ 80°F [26.7°C] dbE ①											
wbE			71°F [21.7°C]			67°F [19.4°C]			63°F [17.2°C]		
CFM [L/s]			7200 [3398]	6000 [2831]	4800 [2265]	7200 [3398]	6000 [2831]	4800 [2265]	7200 [3398]	6000 [2831]	4800 [2265]
DR ①			.16	.12	.08	.16	.12	.08	.16	.12	.08
OUTDOOR DRY BULB TEMPERATURE °F [°C]	75 [23.9]	Total BTUH [kW]	216.1 [63.33]	209.2 [61.31]	202.3 [59.29]	204.7 [59.99]	197.8 [57.97]	191.0 [55.98]	195.9 [57.41]	189.0 [55.39]	182.2 [53.40]
		Sens BTUH [kW]	134.5 [39.42]	121.2 [35.52]	107.9 [31.62]	160.0 [46.89]	146.7 [42.99]	133.4 [39.10]	186.9 [54.77]	173.6 [50.88]	160.3 [46.98]
		Power	15.1	14.9	14.6	14.8	14.5	14.2	14.9	14.6	14.3
	80 [26.7]	Total BTUH [kW]	216.6 [63.48]	209.8 [61.49]	202.9 [59.46]	205.2 [60.14]	198.4 [58.15]	191.5 [56.12]	196.4 [57.56]	189.6 [55.57]	182.7 [53.54]
		Sens BTUH [kW]	135.4 [39.68]	122.1 [35.78]	108.7 [31.86]	160.9 [47.16]	147.5 [43.23]	134.2 [39.33]	187.8 [55.04]	174.4 [51.11]	161.1 [47.21]
		Power	15.9	15.6	15.3	15.5	15.2	14.9	15.6	15.3	15.0
	85 [29.4]	Total BTUH [kW]	214.8 [62.95]	208.0 [60.96]	201.1 [58.94]	203.4 [59.61]	196.6 [57.62]	189.7 [55.60]	194.7 [57.06]	187.8 [55.04]	180.9 [53.02]
		Sens BTUH [kW]	134.7 [39.48]	121.4 [35.58]	108.0 [31.65]	160.2 [46.95]	146.8 [43.02]	133.5 [39.12]	187.1 [54.83]	173.7 [50.91]	160.4 [47.01]
		Power	16.6	16.3	16.0	16.3	16.0	15.7	16.3	16.1	15.8
	90 [32.2]	Total BTUH [kW]	211.4 [61.96]	204.5 [59.93]	197.7 [57.94]	200.0 [58.61]	193.1 [56.59]	186.3 [54.60]	191.2 [56.04]	184.3 [54.01]	177.5 [52.02]
		Sens BTUH [kW]	132.9 [38.95]	119.6 [35.05]	106.3 [31.15]	158.4 [46.42]	145.1 [42.52]	131.8 [38.63]	185.2 [54.28]	172.0 [50.41]	158.7 [46.51]
		Power	17.4	17.1	16.8	17.0	16.7	16.4	17.1	16.8	16.5
	95 [35]	Total BTUH [kW]	207.0 [60.67]	200.1 [58.64]	193.2 [56.62]	195.6 [57.32]	188.7 [55.30]	181.9 [53.31]	186.8 [54.75]	179.9 [52.72]	173.1 [50.73]
		Sens BTUH [kW]	130.6 [38.28]	117.2 [34.35]	103.9 [30.45]	156.0 [45.72]	142.7 [41.82]	129.4 [37.92]	183.2 [53.69]	169.6 [49.70]	156.3 [45.81]
		Power	18.1	17.8	17.5	17.7	17.4	17.2	17.8	17.5	17.2
	100 [37.8]	Total BTUH [kW]	202.2 [59.26]	195.4 [57.27]	188.5 [55.24]	190.9 [55.95]	184.0 [53.93]	177.1 [51.90]	182.1 [53.37]	175.2 [51.35]	168.3 [49.32]
		Sens BTUH [kW]	128.1 [37.54]	114.8 [33.64]	101.5 [29.75]	153.6 [45.02]	140.2 [41.09]	126.9 [37.19]	180.4 [52.87]	167.2 [49.00]	153.8 [45.07]
		Power	18.8	18.6	18.3	18.5	18.2	17.9	18.6	18.3	18.0
	105 [40.6]	Total BTUH [kW]	197.9 [58.00]	191.1 [56.01]	184.2 [53.98]	186.5 [54.66]	179.7 [52.66]	172.8 [50.64]	177.7 [52.08]	170.9 [50.09]	164.0 [48.06]
		Sens BTUH [kW]	126.0 [36.93]	112.7 [33.03]	99.3 [29.10]	151.5 [44.40]	138.1 [40.47]	124.8 [36.58]	177.7 [52.08]	165.0 [48.36]	151.7 [44.46]
		Power	19.6	19.3	19.0	19.2	18.9	18.6	19.3	19.0	18.7
	110 [43.3]	Total BTUH [kW]	194.7 [57.06]	187.8 [55.04]	180.9 [53.02]	183.3 [53.72]	176.4 [51.70]	169.6 [49.70]	174.5 [51.14]	167.6 [49.12]	160.8 [47.13]
		Sens BTUH [kW]	124.7 [36.55]	111.4 [32.65]	98.1 [28.75]	150.2 [44.02]	136.9 [40.12]	123.6 [36.22]	174.5 [51.14]	163.8 [48.01]	150.5 [44.11]
		Power	20.3	20.0	19.7	20.0	19.7	19.4	20.0	19.8	19.5
	115 [46.1]	Total BTUH [kW]	193.2 [56.62]	186.3 [54.60]	179.4 [52.58]	181.8 [53.28]	174.9 [51.26]	168.1 [49.27]	173.0 [50.70]	166.1 [48.68]	159.3 [46.69]
		Sens BTUH [kW]	124.8 [36.58]	111.5 [32.68]	98.2 [28.78]	150.3 [44.05]	137.0 [40.15]	123.6 [36.22]	173.0 [50.70]	163.9 [48.03]	150.6 [44.14]
		Power	21.1	20.8	20.5	20.7	20.4	20.1	20.8	20.5	20.2

GROSS SYSTEMS PERFORMANCE DATA—A240

ENTERING INDOOR AIR @ 80°F [26.7°C] dbE ①											
wbE			71°F [21.7°C]			67°F [19.4°C]			63°F [17.2°C]		
CFM [L/s]			8880 [4190]	7400 [3492]	5920 [2793]	8880 [4190]	7400 [3492]	5920 [2793]	8880 [4190]	7400 [3492]	5920 [2793]
DR ①			.17	.14	.11	.17	.14	.11	.17	.14	.11
OUTDOOR DRY BULB TEMPERATURE °F [°C]	75 [23.9]	Total BTUH [kW]	269.9 [79.10]	261.1 [76.52]	252.3 [73.94]	263.5 [77.22]	254.7 [74.65]	246.0 [72.10]	245.6 [71.98]	236.9 [69.43]	228.1 [66.85]
		Sens BTUH [kW]	161.5 [47.33]	145.0 [42.50]	128.4 [37.63]	201.3 [59.00]	184.7 [54.13]	168.2 [49.29]	219.2 [64.24]	202.6 [59.38]	186.0 [54.51]
		Power	18.2	17.8	17.5	18.6	18.2	17.9	17.6	17.2	16.9
	80 [26.7]	Total BTUH [kW]	262.6 [76.96]	253.8 [74.38]	245.0 [71.80]	256.2 [75.08]	247.4 [72.51]	238.7 [69.96]	238.3 [69.84]	229.6 [67.29]	220.8 [64.71]
		Sens BTUH [kW]	150.9 [44.22]	134.3 [39.36]	117.7 [34.49]	190.6 [55.86]	174.1 [51.02]	157.5 [46.16]	208.5 [61.11]	191.9 [56.24]	175.4 [51.40]
		Power	19.2	18.8	18.4	19.6	19.2	18.8	18.6	18.2	17.8
	85 [29.4]	Total BTUH [kW]	259.0 [75.91]	250.2 [73.33]	241.4 [70.75]	252.6 [74.03]	243.8 [71.45]	235.1 [68.90]	234.7 [68.78]	226.0 [66.23]	217.2 [63.66]
		Sens BTUH [kW]	148.1 [43.40]	131.5 [38.54]	114.9 [33.67]	187.8 [55.04]	171.3 [50.20]	154.7 [45.34]	205.7 [60.28]	189.1 [55.42]	172.6 [50.58]
		Power	20.1	19.8	19.4	20.6	20.2	19.8	19.6	19.2	18.8
	90 [32.2]	Total BTUH [kW]	257.5 [75.47]	248.7 [72.89]	239.9 [70.31]	251.2 [73.62]	242.4 [71.04]	233.6 [68.46]	233.3 [68.37]	224.5 [65.79]	215.7 [63.22]
		Sens BTUH [kW]	150.2 [44.02]	133.6 [39.15]	117.1 [34.32]	190.0 [55.68]	173.4 [50.82]	156.8 [45.95]	207.8 [60.90]	191.3 [56.06]	174.7 [51.20]
		Power	21.1	20.8	20.4	21.5	21.2	20.8	20.5	20.2	19.8
	95 [35]	Total BTUH [kW]	256.7 [75.23]	247.9 [72.65]	239.1 [70.07]	250.4 [73.39]	241.6 [70.81]	232.8 [68.23]	232.5 [68.14]	223.7 [65.56]	214.9 [62.98]
		Sens BTUH [kW]	154.4 [45.25]	137.8 [40.39]	121.2 [35.52]	194.1 [56.89]	177.6 [52.05]	161.0 [47.18]	212.2 [62.19]	195.4 [57.27]	178.9 [52.43]
		Power	22.1	21.7	21.4	22.5	22.1	21.8	21.5	21.1	20.8
	100 [37.8]	Total BTUH [kW]	255.0 [74.73]	246.2 [72.15]	237.4 [69.58]	248.6 [72.86]	239.8 [70.28]	231.1 [67.73]	230.7 [67.61]	222.0 [65.06]	213.2 [62.48]
		Sens BTUH [kW]	157.7 [46.22]	141.1 [41.35]	124.5 [36.49]	197.4 [57.85]	180.9 [53.02]	164.3 [48.15]	215.3 [63.10]	198.7 [58.23]	182.1 [53.37]
		Power	23.1	22.7	22.3	23.5	23.1	22.8	22.5	22.1	21.8
	105 [40.6]	Total BTUH [kW]	250.8 [73.50]	242.0 [70.92]	233.2 [68.34]	244.4 [71.63]	235.7 [69.08]	226.9 [66.50]	226.6 [66.41]	217.8 [63.83]	209.0 [61.25]
		Sens BTUH [kW]	157.2 [46.07]	140.6 [41.21]	124.0 [36.34]	196.9 [57.71]	180.4 [52.87]	163.8 [48.01]	214.8 [62.95]	198.2 [58.09]	181.6 [53.22]
		Power	24.1	23.7	23.3	24.5	24.1	23.7	23.5	23.1	22.7
	110 [43.3]	Total BTUH [kW]	242.6 [71.10]	233.8 [68.52]	225.1 [65.97]	236.3 [69.25]	227.5 [66.67]	218.7 [64.09]	218.4 [64.01]	209.6 [61.43]	200.8 [58.85]
		Sens BTUH [kW]	149.9 [43.93]	133.4 [39.10]	116.8 [34.23]	189.7 [55.60]	173.1 [50.73]	156.6 [45.89]	207.6 [60.84]	191.0 [55.98]	174.4 [51.11]
		Power	25.0	24.7	24.3	25.5	25.1	24.7	24.5	24.1	23.7
	115 [46.1]	Total BTUH [kW]	228.9 [67.08]	220.2 [64.53]	211.4 [61.96]	222.6 [65.24]	213.8 [62.66]	205.0 [60.08]	204.7 [59.99]	195.9 [57.41]	187.2 [54.86]
		Sens BTUH [kW]	133.1 [39.01]	116.5 [34.14]	100.0 [29.31]	172.9 [50.67]	156.3 [45.81]	139.7 [40.94]	190.7 [55.89]	174.2 [51.05]	157.6 [46.19]
		Power	26.0	25.7	25.3	26.4	26.1	25.7	25.4	25.1	24.7

DR —Depression ratio
dbE —Entering air dry bulb
wbE—Entering air wet bulb

Total —Total capacity x 1000 BTUH
Sens —Sensible capacity x 1000 BTUH
Power—KW input

NOTES: ① When the entering air dry bulb is other than 80°F [27°C], adjust the sensible capacity from the table by adding [1.10 x CFM x (1 – DR) x (dbE – 80)].

[ ] Designates Metric Conversions

GROSS SYSTEMS PERFORMANCE DATA—A300

ENTERING INDOOR AIR @ 80°F [26.7°C] dbE ①												
wbE			71°F [21.7°C]			67°F [19.4°C]			63°F [17.2°C]			
CFM [L/s]			9580 [4521]	8400 [3964]	6720 [3171]	9580 [4521]	8400 [3964]	6720 [3171]	9580 [4521]	8400 [3964]	6720 [3171]	
DR ①			.16	.14	.12	.16	.14	.12	.16	.14	.12	
OUTDOOR DRY BULB TEMPERATURE °F [°C]	75 [23.9]	Total BTUH [kW]	338.3 [99.15]	330.7 [96.92]	319.8 [93.72]	328.7 [96.33]	321.1 [94.11]	310.2 [90.91]	318.1 [93.23]	310.5 [91.00]	299.6 [87.80]	
		Sens BTUH [kW]	200.5 [58.76]	186.7 [54.72]	167.0 [48.94]	237.9 [69.72]	224.1 [65.68]	204.4 [59.90]	276.8 [81.12]	263.0 [77.08]	243.3 [71.30]	
		Power	21.9	21.6	21.2	21.6	21.3	20.9	21.1	20.8	20.3	
	80 [26.7]	Total BTUH [kW]	333.9 [97.86]	326.3 [95.63]	315.4 [92.43]	324.3 [95.04]	316.7 [92.82]	305.8 [89.62]	313.8 [91.97]	306.2 [89.74]	295.3 [86.54]	
		Sens BTUH [kW]	199.4 [58.44]	185.6 [54.39]	165.9 [48.62]	236.8 [69.40]	223.0 [65.35]	203.3 [59.58]	275.8 [80.83]	262.0 [76.78]	242.2 [70.98]	
		Power	23.2	22.9	22.5	23.0	22.6	22.2	22.4	22.1	21.7	
	85 [29.4]	Total BTUH [kW]	328.9 [96.39]	321.3 [94.16]	310.4 [90.97]	319.3 [93.58]	311.7 [91.35]	300.8 [88.16]	308.8 [90.50]	301.1 [88.24]	290.3 [85.08]	
		Sens BTUH [kW]	196.6 [57.62]	182.8 [53.57]	163.1 [47.80]	234.0 [68.58]	220.2 [64.53]	200.4 [58.73]	272.9 [79.98]	259.1 [75.93]	239.4 [70.16]	
		Power	24.6	24.3	23.8	24.3	24.0	23.5	23.7	23.4	23.0	
	90 [32.2]	Total BTUH [kW]	323.1 [94.69]	315.5 [92.46]	304.6 [89.27]	313.6 [91.91]	305.9 [89.65]	295.1 [86.49]	303.0 [88.80]	295.4 [86.57]	284.5 [83.38]	
		Sens BTUH [kW]	192.5 [56.42]	178.7 [52.37]	159.0 [46.60]	229.9 [67.38]	216.1 [63.33]	196.4 [57.56]	268.9 [78.81]	255.1 [74.76]	235.3 [68.96]	
		Power	25.9	25.6	25.1	25.6	25.3	24.8	25.1	24.8	24.3	
	95 [35]	Total BTUH [kW]	316.5 [92.76]	308.1 [90.29]	298.0 [87.34]	306.9 [89.94]	299.3 [87.72]	288.4 [84.52]	296.3 [86.84]	288.7 [84.61]	277.8 [81.42]	
		Sens BTUH [kW]	187.7 [55.01]	173.9 [50.97]	154.2 [45.19]	225.1 [65.97]	211.3 [61.93]	191.6 [56.15]	264.1 [77.40]	250.3 [73.36]	230.5 [67.55]	
		Power	27.2	26.9	26.5	26.9	26.6	26.2	26.4	26.1	25.6	
	100 [37.8]	Total BTUH [kW]	308.9 [90.53]	301.3 [88.30]	290.4 [85.11]	299.3 [87.72]	291.7 [85.49]	280.8 [82.29]	288.7 [84.61]	281.1 [82.38]	270.2 [79.19]	
		Sens BTUH [kW]	182.7 [53.54]	168.9 [49.50]	149.2 [43.73]	220.1 [64.50]	206.3 [60.46]	186.6 [54.69]	259.1 [75.93]	245.3 [71.89]	225.5 [66.09]	
		Power	28.5	28.2	27.8	28.2	27.9	27.5	27.7	27.4	27.0	
	105 [40.6]	Total BTUH [kW]	300.2 [87.98]	292.6 [85.75]	281.7 [82.56]	290.6 [85.17]	283.0 [82.94]	272.1 [79.74]	280.0 [82.06]	272.4 [79.83]	261.5 [76.64]	
		Sens BTUH [kW]	178.1 [52.20]	164.3 [48.15]	144.6 [42.38]	215.5 [63.16]	201.6 [59.08]	181.9 [53.31]	254.4 [74.56]	240.6 [70.51]	220.9 [64.74]	
		Power	29.9	29.6	29.1	29.6	29.3	28.8	29.0	28.7	28.3	
	110 [43.3]	Total BTUH [kW]	290.3 [85.08]	282.7 [82.85]	271.8 [79.66]	280.7 [82.27]	273.1 [80.04]	262.2 [76.84]	270.1 [79.16]	262.5 [76.93]	251.6 [73.74]	
		Sens BTUH [kW]	174.3 [51.08]	160.4 [47.01]	140.7 [41.24]	211.6 [62.01]	197.8 [57.97]	178.1 [52.20]	250.6 [73.44]	236.8 [69.40]	217.0 [63.60]	
		Power	31.2	30.9	30.4	30.9	30.6	30.1	30.4	30.0	29.6	
	115 [46.1]	Total BTUH [kW]	279.1 [81.80]	271.5 [79.57]	260.6 [76.37]	269.5 [78.98]	261.9 [76.76]	251.0 [73.56]	258.9 [75.88]	251.3 [73.65]	240.4 [70.45]	
		Sens BTUH [kW]	171.8 [50.35]	158.0 [46.31]	138.3 [40.53]	209.2 [61.31]	195.3 [57.24]	175.6 [51.46]	248.1 [72.71]	234.3 [68.67]	214.6 [62.89]	
		Power	32.5	32.2	31.8	32.2	31.9	31.5	31.7	31.4	30.9	

DR —Depression ratio
dbE —Entering air dry bulb
wbE—Entering air wet bulb

Total —Total capacity x 1000 BTUH
Sens —Sensible capacity x 1000 BTUH
Power—KW input

NOTES: ① When the entering air dry bulb is other than 80°F [27°C], adjust the sensible capacity from the table by adding [1.10 x CFM x (1 – DR) x (dbE – 80)].

[ ] Designates Metric Conversions

GROSS SYSTEMS PERFORMANCE DATA—A180

ENTERING INDOOR AIR @ 80°F [26.7°C] dbE ①											
wbE			71°F [21.7°C]			67°F [19.4°C]			63°F [17.2°C]		
CFM [L/s]			7200 [3398]	6000 [2831]	4800 [2265]	7200 [3398]	6000 [2831]	4800 [2265]	7200 [3398]	6000 [2831]	4800 [2265]
DR ①			.16	.12	.08	.16	.12	.08	.16	.12	.08
OUTDOOR DRY BULB TEMPERATURE °F [°C]	75 [23.9]	Total BTUH [kW]	216.1 [63.33]	209.2 [61.31]	202.3 [59.29]	204.7 [59.99]	197.8 [57.97]	191.0 [55.98]	195.9 [57.41]	189.0 [55.39]	182.2 [53.40]
		Sens BTUH [kW]	134.5 [39.42]	121.2 [35.52]	107.9 [31.62]	160.0 [46.89]	146.7 [42.99]	133.4 [39.10]	186.9 [54.77]	173.6 [50.88]	160.3 [46.98]
		Power	13.2	12.9	12.7	12.8	12.5	12.3	12.9	12.7	12.4
	80 [26.7]	Total BTUH [kW]	216.6 [63.48]	209.8 [61.49]	202.9 [59.46]	205.2 [60.14]	198.4 [58.15]	191.5 [56.12]	196.4 [57.56]	189.6 [55.57]	182.7 [53.54]
		Sens BTUH [kW]	135.4 [39.68]	122.1 [35.78]	108.7 [31.86]	160.9 [47.16]	147.5 [43.23]	134.2 [39.33]	187.8 [55.04]	174.4 [51.11]	161.1 [47.21]
		Power	13.8	13.5	13.3	13.4	13.2	12.9	13.6	13.3	13.1
	85 [29.4]	Total BTUH [kW]	214.8 [62.95]	208.0 [60.96]	201.1 [58.94]	203.4 [59.61]	196.6 [57.62]	189.7 [55.60]	194.7 [57.06]	187.8 [55.04]	180.9 [53.02]
		Sens BTUH [kW]	134.7 [39.48]	121.4 [35.58]	108.0 [31.65]	160.2 [46.95]	146.8 [43.02]	133.5 [39.12]	187.1 [54.83]	173.7 [50.91]	160.4 [47.01]
		Power	14.4	14.2	13.9	14.1	13.8	13.6	14.2	13.9	13.7
	90 [32.2]	Total BTUH [kW]	211.4 [61.96]	204.5 [59.93]	197.7 [57.94]	200.0 [58.61]	193.1 [56.59]	186.3 [54.60]	191.2 [56.04]	184.3 [54.01]	177.5 [52.02]
		Sens BTUH [kW]	132.9 [38.95]	119.6 [35.05]	106.3 [31.15]	158.4 [46.42]	145.1 [42.52]	131.8 [38.63]	185.2 [54.28]	172.0 [50.41]	158.7 [46.51]
		Power	15.1	14.8	14.6	14.7	14.5	14.2	14.8	14.6	14.3
	95 [35]	Total BTUH [kW]	207.0 [60.67]	200.1 [58.64]	193.2 [56.62]	195.6 [57.32]	188.7 [55.30]	181.9 [53.31]	186.8 [54.75]	179.9 [52.72]	173.1 [50.73]
		Sens BTUH [kW]	130.6 [38.28]	117.2 [34.35]	103.9 [30.45]	156.0 [45.72]	142.7 [41.82]	129.4 [37.92]	183.2 [53.69]	169.6 [49.70]	156.3 [45.81]
		Power	15.7	15.5	15.2	15.3	15.1	14.8	15.5	15.2	15.0
	100 [37.8]	Total BTUH [kW]	202.2 [59.26]	195.4 [57.27]	188.5 [55.24]	190.9 [55.95]	184.0 [53.93]	177.1 [51.90]	182.1 [53.37]	175.2 [51.35]	168.3 [49.32]
		Sens BTUH [kW]	128.1 [37.54]	114.8 [33.64]	101.5 [29.75]	153.6 [45.02]	140.2 [41.09]	126.9 [37.19]	180.4 [52.87]	167.2 [49.00]	153.8 [45.07]
		Power	16.4	16.1	15.9	16.0	15.7	15.5	16.1	15.9	15.6
	105 [40.6]	Total BTUH [kW]	197.9 [58.00]	191.1 [56.01]	184.2 [53.98]	186.5 [54.66]	179.7 [52.66]	172.8 [50.64]	177.7 [52.08]	170.9 [50.09]	164.0 [48.06]
		Sens BTUH [kW]	126.0 [36.93]	112.7 [33.03]	99.3 [29.10]	151.5 [44.40]	138.1 [40.47]	124.8 [36.58]	177.7 [52.08]	165.0 [48.36]	151.7 [44.46]
		Power	17.0	16.8	16.5	16.6	16.4	16.1	16.8	16.5	16.3
	110 [43.3]	Total BTUH [kW]	194.7 [57.06]	187.8 [55.04]	180.9 [53.02]	183.3 [53.72]	176.4 [51.70]	169.6 [49.70]	174.5 [51.14]	167.6 [49.12]	160.8 [47.13]
		Sens BTUH [kW]	124.7 [36.55]	111.4 [32.65]	98.1 [28.75]	150.2 [44.02]	136.9 [40.12]	123.6 [36.22]	174.5 [51.14]	163.8 [48.01]	150.5 [44.11]
		Power	17.6	17.4	17.1	17.3	17.0	16.8	17.4	17.1	16.9
	115 [46.1]	Total BTUH [kW]	193.2 [56.62]	186.3 [54.60]	179.4 [52.58]	181.8 [53.28]	174.9 [51.26]	168.1 [49.27]	173.0 [50.70]	166.1 [48.68]	159.3 [46.69]
		Sens BTUH [kW]	124.8 [36.58]	111.5 [32.68]	98.2 [28.78]	150.3 [44.05]	137.0 [40.15]	123.6 [36.22]	173.0 [50.70]	163.9 [48.03]	150.6 [44.14]
		Power	18.3	18.0	17.8	17.9	17.7	17.4	18.0	17.8	17.5

GROSS SYSTEMS PERFORMANCE DATA—A240

ENTERING INDOOR AIR @ 80°F [26.7°C] dbE ①											
wbE			71°F [21.7°C]			67°F [19.4°C]			63°F [17.2°C]		
CFM [L/s]			8880 [4190]	7400 [3492]	5920 [2793]	8880 [4190]	7400 [3492]	5920 [2793]	8880 [4190]	7400 [3492]	5920 [2793]
DR ①			.15	.12	.08	.15	.12	.08	.15	.12	.08
OUTDOOR DRY BULB TEMPERATURE °F [°C]	75 [23.9]	Total BTUH [kW]	277.6 [81.36]	268.7 [78.75]	259.7 [76.11]	265.8 [77.90]	256.9 [75.29]	248.0 [72.68]	255.3 [74.82]	246.4 [72.21]	237.5 [69.60]
		Sens BTUH [kW]	173.0 [50.70]	156.1 [45.75]	139.1 [40.77]	204.3 [59.87]	187.4 [54.92]	170.4 [49.94]	238.3 [69.84]	221.4 [64.89]	204.4 [59.90]
		Power	16.2	15.8	15.5	16.2	15.8	15.5	15.8	15.5	15.1
	80 [26.7]	Total BTUH [kW]	274.3 [80.39]	265.3 [77.75]	256.4 [75.14]	262.5 [76.93]	253.6 [74.32]	244.6 [71.69]	252.0 [73.85]	243.1 [71.25]	234.1 [68.61]
		Sens BTUH [kW]	172.2 [50.47]	155.2 [45.48]	138.3 [40.53]	203.5 [59.64]	186.5 [54.66]	169.6 [49.70]	237.5 [69.60]	220.5 [64.62]	203.6 [59.67]
		Power	17.2	16.9	16.5	17.2	16.9	16.5	16.8	16.5	16.1
	85 [29.4]	Total BTUH [kW]	271.6 [79.60]	262.7 [76.99]	253.7 [74.35]	259.8 [76.14]	250.9 [73.53]	242.0 [70.92]	249.3 [73.06]	240.4 [70.45]	231.5 [67.85]
		Sens BTUH [kW]	170.9 [50.09]	153.9 [45.10]	137.0 [40.15]	202.2 [59.26]	185.2 [54.28]	168.3 [49.32]	236.1 [69.19]	219.2 [64.24]	202.2 [59.26]
		Power	18.2	17.9	17.6	18.2	17.9	17.6	17.8	17.5	17.2
	90 [32.2]	Total BTUH [kW]	269.1 [78.87]	260.2 [76.26]	251.2 [73.62]	257.3 [75.41]	248.4 [72.80]	239.5 [70.19]	246.8 [72.33]	237.9 [69.72]	229.0 [67.11]
		Sens BTUH [kW]	169.2 [49.59]	152.2 [44.61]	135.3 [39.65]	200.5 [58.76]	183.5 [53.78]	166.6 [48.83]	234.5 [68.73]	217.5 [63.74]	200.6 [58.79]
		Power	19.3	18.9	18.6	19.2	18.9	18.6	18.9	18.5	18.2
	95 [35]	Total BTUH [kW]	266.3 [78.04]	257.4 [75.44]	248.4 [72.80]	254.5 [74.59]	245.6 [71.98]	236.7 [69.37]	244.0 [71.51]	235.1 [68.90]	226.2 [66.29]
		Sens BTUH [kW]	167.2 [49.00]	150.3 [44.05]	133.3 [39.07]	198.5 [58.17]	181.6 [53.22]	164.6 [48.24]	232.5 [68.14]	215.6 [63.19]	198.6 [58.20]
		Power	20.3	19.9	19.6	20.3	19.9	19.6	19.9	19.5	19.2
	100 [37.8]	Total BTUH [kW]	262.7 [76.99]	253.8 [74.38]	244.8 [71.74]	250.9 [73.53]	242.0 [70.92]	233.1 [68.31]	240.4 [70.45]	231.5 [67.85]	222.6 [65.24]
		Sens BTUH [kW]	165.1 [48.39]	148.1 [43.40]	131.2 [38.45]	196.4 [57.56]	179.4 [52.58]	162.5 [47.62]	230.4 [67.52]	213.4 [62.54]	196.5 [57.59]
		Power	21.3	21.0	20.6	21.3	21.0	20.6	20.9	20.6	20.2
	105 [40.6]	Total BTUH [kW]	257.8 [75.55]	248.9 [72.95]	240.0 [70.34]	246.1 [72.12]	237.1 [69.49]	228.2 [66.88]	235.6 [69.05]	226.7 [66.44]	217.7 [63.80]
		Sens BTUH [kW]	162.8 [47.71]	145.9 [42.76]	128.9 [37.78]	194.1 [56.89]	177.2 [51.93]	160.2 [46.95]	228.1 [66.85]	211.2 [61.90]	194.2 [56.91]
		Power	22.3	22.0	21.7	22.3	22.0	21.7	21.9	21.6	21.3
	110 [43.3]	Total BTUH [kW]	251.2 [73.62]	242.3 [71.01]	233.4 [68.40]	239.5 [70.19]	230.5 [67.55]	221.6 [64.94]	229.0 [67.11]	220.0 [64.48]	211.1 [61.87]
		Sens BTUH [kW]	160.5 [47.04]	143.6 [42.09]	126.6 [37.10]	191.9 [56.24]	174.9 [51.26]	158.0 [46.31]	225.8 [66.18]	208.9 [61.22]	191.9 [56.24]
		Power	23.4	23.0	22.7	23.3	23.0	22.7	23.0	22.6	22.3
	115 [46.1]	Total BTUH [kW]	242.4 [71.04]	233.5 [68.43]	224.5 [65.79]	230.6 [67.58]	221.7 [64.97]	212.8 [62.37]	220.1 [64.50]	211.2 [61.90]	202.3 [59.29]
		Sens BTUH [kW]	158.3 [46.39]	141.4 [41.44]	124.4 [36.46]	189.6 [55.57]	172.7 [50.61]	155.7 [45.63]	220.1 [64.50]	206.7 [60.58]	189.7 [55.60]
		Power	24.4	24.0	23.7	24.4	24.0	23.7	24.0	23.6	23.3

DR —Depression ratio
dbE —Entering air dry bulb
wbE—Entering air wet bulb

Total —Total capacity x 1000 BTUH
Sens —Sensible capacity x 1000 BTUH
Power—KW input

NOTES: ① When the entering air dry bulb is other than 80°F [27°C], adjust the sensible capacity from the table by adding [1.10 x CFM x (1 – DR) x (dbE – 80)].

[ ] Designates Metric Conversions

GROSS SYSTEMS PERFORMANCE DATA—A180

ENTERING INDOOR AIR @ 80°F [26.7°C] dbE ①												
wbE			71°F [21.7°C]			67°F [19.4°C]			63°F [17.2°C]			
CFM [L/s]			7200 [3398]	6000 [2831]	4800 [2265]	7200 [3398]	6000 [2831]	4800 [2265]	7200 [3398]	6000 [2831]	4800 [2265]	
DR ①			.16	.12	.08	.16	.12	.08	.16	.12	.08	
OUTDOOR DRY BULB TEMPERATURE °F [°C]	75 [23.9]	Total BTUH [kW]	212.3 [62.22]	204.8 [60.02]	197.4 [57.85]	204.1 [59.82]	197.0 [57.74]	189.8 [55.62]	196.3 [57.53]	189.4 [55.51]	182.5 [53.49]	
		Sens BTUH [kW]	131.9 [38.66]	120.6 [35.34]	109.3 [32.03]	160.7 [47.10]	147.0 [43.08]	133.3 [39.07]	188.2 [55.16]	172.2 [50.47]	156.1 [45.75]	
		Power	13.0	12.8	12.6	13.0	12.7	12.5	12.9	12.7	12.5	
	80 [26.7]	Total BTUH [kW]	207.6 [60.84]	200.4 [58.73]	193.1 [56.59]	199.5 [58.47]	192.5 [56.42]	185.5 [54.36]	191.7 [56.18]	185.0 [54.22]	178.2 [52.23]	
		Sens BTUH [kW]	130.1 [38.13]	119.0 [34.88]	107.9 [31.62]	159.0 [46.60]	145.4 [42.61]	131.8 [38.63]	186.4 [54.63]	170.5 [49.97]	154.6 [45.31]	
		Power	13.6	13.4	13.2	13.6	13.3	13.1	13.5	13.3	13.1	
	85 [29.4]	Total BTUH [kW]	205.3 [60.17]	198.1 [58.06]	190.9 [55.95]	197.2 [57.79]	190.3 [55.77]	183.4 [53.75]	189.4 [55.51]	182.7 [53.54]	176.1 [51.61]	
		Sens BTUH [kW]	128.9 [37.78]	117.9 [34.55]	106.9 [31.33]	157.8 [46.25]	144.3 [42.29]	130.8 [38.33]	185.3 [54.31]	169.4 [49.65]	153.6 [45.02]	
		Power	14.2	14.0	13.8	14.2	13.9	13.7	14.1	13.9	13.6	
	90 [32.2]	Total BTUH [kW]	204.3 [59.87]	197.2 [57.79]	190.0 [55.68]	196.2 [57.50]	189.3 [55.48]	182.4 [53.46]	188.4 [55.21]	181.8 [53.28]	175.1 [51.32]	
		Sens BTUH [kW]	128.0 [37.51]	117.1 [34.32]	106.2 [31.12]	156.9 [45.98]	143.5 [42.06]	130.1 [38.13]	184.4 [54.04]	168.6 [49.41]	152.9 [44.81]	
		Power	14.8	14.6	14.3	14.7	14.5	14.3	14.7	14.5	14.2	
	95 [35]	Total BTUH [kW]	203.7 [59.70]	196.6 [57.62]	189.4 [55.51]	195.6 [57.32]	188.7 [55.30]	181.9 [53.31]	187.7 [55.01]	181.2 [53.10]	174.6 [51.17]	
		Sens BTUH [kW]	127.2 [37.28]	116.3 [34.08]	105.5 [30.92]	156.0 [45.72]	142.7 [41.82]	129.4 [37.92]	183.5 [53.78]	167.9 [49.21]	152.2 [44.61]	
		Power	15.4	15.2	14.9	15.3	15.1	14.8	15.3	15.0	14.8	
	100 [37.8]	Total BTUH [kW]	202.5 [59.35]	195.4 [57.27]	188.3 [55.19]	194.4 [56.97]	187.5 [54.95]	180.7 [52.96]	186.5 [54.66]	180.0 [52.75]	173.4 [50.82]	
		Sens BTUH [kW]	126.0 [36.93]	115.3 [33.79]	104.5 [30.63]	154.9 [45.40]	141.7 [41.53]	128.5 [37.66]	182.4 [53.46]	166.8 [48.88]	151.2 [44.31]	
		Power	16.0	15.8	15.5	15.9	15.7	15.4	15.9	15.6	15.4	
	105 [40.6]	Total BTUH [kW]	199.7 [58.53]	192.7 [56.47]	185.7 [54.42]	191.6 [56.15]	184.9 [54.19]	178.1 [52.20]	183.7 [53.84]	177.3 [51.96]	170.8 [50.06]	
		Sens BTUH [kW]	124.3 [36.43]	113.7 [33.32]	103.1 [30.22]	153.2 [44.90]	140.1 [41.06]	127.1 [37.25]	180.7 [52.96]	165.3 [48.44]	149.8 [43.90]	
		Power	16.6	16.4	16.1	16.5	16.3	16.0	16.5	16.2	15.9	
	110 [43.3]	Total BTUH [kW]	194.4 [56.97]	187.6 [54.98]	180.8 [52.99]	186.3 [54.60]	179.7 [52.66]	173.2 [50.76]	178.4 [52.28]	172.2 [50.47]	165.9 [48.62]	
		Sens BTUH [kW]	121.8 [35.70]	111.4 [32.65]	101.0 [29.60]	150.7 [44.17]	137.8 [40.39]	124.9 [36.60]	178.2 [52.23]	163.0 [47.77]	147.7 [43.29]	
		Power	17.2	16.9	16.7	17.1	16.9	16.6	17.1	16.8	16.5	
	115 [46.1]	Total BTUH [kW]	185.6 [54.39]	179.1 [52.49]	172.6 [50.58]	177.5 [52.02]	171.2 [50.17]	165.0 [48.36]	169.6 [49.70]	163.7 [47.98]	157.7 [46.22]	
		Sens BTUH [kW]	118.1 [34.61]	108.0 [31.65]	98.0 [28.72]	147.0 [43.08]	134.5 [39.42]	121.9 [35.73]	169.6 [49.70]	159.6 [46.77]	144.7 [42.41]	
		Power	17.8	17.5	17.2	17.7	17.4	17.2	17.7	17.4	17.1	

DR —Depression ratio
dbE —Entering air dry bulb
wbE—Entering air wet bulb

Total —Total capacity x 1000 BTUH
Sens —Sensible capacity x 1000 BTUH
Power—KW input

NOTES: ① When the entering air dry bulb is other than 80°F [27°C], adjust the sensible capacity from the table by adding [1.10 x CFM x (1 – DR) x (dbE – 80)].

[ ] Designates Metric Conversions

AIRFLOW PERFORMANCE—15 TON [52.8 kW]

Air Flow CFM [L/s]	Capacity 15 Ton [52.8 kW]																																			
	External Static Pressure—Inches of Water [kPa]																																			
	0.1 [.02]		0.2 [.05]		0.3 [.07]		0.4 [.10]		0.5 [.12]		0.6 [.15]		0.7 [.17]		0.8 [.20]		0.9 [.22]		1.0 [.25]		1.1 [.27]		1.2 [.30]		1.3 [.32]		1.4 [.35]		1.5 [.37]		1.6 [.40]		1.7 [.42]		1.8 [.45]		1.9 [.47]		2.0 [.50]	
	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W
4800 [2265]	—	—	—	—	—	—	631	951	650	1095	670	1238	689	1382	709	1525	728	1669	747	1812	767	1956	786	2100	806	2243	899	1949	912	2128	924	2307	937	2486	950	2665	963	2844	976	3023
5000 [2360]	—	—	—	—	—	—	647	1194	666	1338	686	1482	705	1625	725	1769	744	1912	764	2056	783	2199	802	2343	822	2487	908	2254	921	2433	933	2612	946	2791	959	2970	972	3149	985	3329
5200 [2454]	—	—	—	—	644	1294	663	1438	682	1581	702	1725	721	1869	741	2012	760	2156	780	2299	799	2443	818	2586	904	2380	917	2559	929	2738	942	2917	955	3097	968	3276	981	3455	994	3634
5400 [2549]	—	—	640	1394	660	1538	679	1681	698	1825	718	1968	737	2112	757	2256	776	2399	796	2543	815	2686	900	2506	913	2685	926	2864	938	3044	951	3223	964	3402	977	3581	990	3760	1003	3939
5600 [2643]	637	1494	656	1638	676	1781	695	1925	714	2068	734	2212	753	2355	773	2499	792	2643	812	2786	896	2632	909	2812	922	2991	935	3170	947	3349	960	3528	973	3707	986	3886	999	4065	1012	4245
5800 [2737]	653	1738	672	1881	692	2025	711	2168	731	2312	750	2455	769	2599	789	2742	808	2886	892	2759	905	2938	918	3117	931	3296	944	3475	956	3654	969	3833	982	4012	995	4192	1008	4371	1021	4550
6000 [2832]	669	1981	688	2125	708	2268	727	2412	747	2555	766	2699	785	2842	805	2986	888	2885	901	3064	914	3243	927	3422	940	3601	953	3780	965	3960	978	4139	991	4318	1004	4497	1017	4676	—	—
6200 [2926]	685	2224	704	2368	724	2512	743	2655	763	2799	782	2942	801	3086	821	3229	897	3190	910	3369	923	3548	936	3727	949	3907	962	4086	974	4265	987	4444	1000	4623	1013	4802	—	—	—	—
6400 [3020]	701	2468	720	2611	740	2755	759	2899	779	3042	798	3186	817	3329	893	3316	906	3495	919	3675	932	3854	945	4033	958	4212	971	4391	983	4570	996	4749	1009	4928	—	—	—	—	—	—
6600 [3115]	717	2711	736	2855	756	2998	775	3142	795	3286	814	3429	889	3442	902	3622	915	3801	928	3980	941	4159	954	4338	967	4517	980	4696	992	4876	1005	5055	—	—	—	—	—	—	—	—
6800 [3209]	733	2955	752	3098	772	3242	791	3385	811	3529	885	3569	898	3748	911	3927	924	4106	937	4285	950	4464	963	4643	976	4823	989	5002	—	—	—	—	—	—	—	—	—	—	—	—
7000 [3304]	749	3198	768	3342	788	3485	807	3629	881	3695	894	3874	907	4053	920	4232	933	4411	946	4591	959	4770	972	4949	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
7200 [3398]	765	3442	784	3585	804	3729	877	3821	890	4000	903	4179	916	4358	929	4538	942	4717	955	4896	968	5075	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

NOTE: L-Drive left of bold line, M-Drive right of bold line.

Drive Package	L						M					
Motor H.P. [W]	3.0 [2237.1]						5.0 [3728.4]					
Blower Sheave	BK90						BK72					
Motor Sheave	1VP-44						1VP-44					
Turns Open	1	2	**3**	4	5	6	1.5	2	3	**4**	5	6
RPM	823	787	**750**	710	670	629	1022	1017	1006	**933**	860	786

NOTES: 1. Factory sheave settings are shown in bold type.
2. Do not set motor sheave below minimum turns open shown.
3. Re-adjustment of sheave required to achieve rated airflow at ARI minimum E.S.P.
4. Drive data shown is for horizontal airflow with dry coil. Add component resistance to duct resistance to determine total E.S.P.

COMPONENT AIR RESISTANCE—15 TON [52.8 kW]

CFM [L/s]	4800 [2265]	5200 [2454]	5600 [2643]	6000 [2832]	6400 [3020]	6800 [3209]	7200 [3398]
Wet Coil	.02	.04	.06	.08	.10	.12	.15
Downflow	.01	.02	.03	.04	.05	.06	.07
Economizer R.A. Damper Open	.08	.11	.12	.13	.16	.17	.18
Concentric Grill & Transition	N/A	N/A	N/A	N/A	N/A	N/A	N/A

NOTE: Add component resistance to duct resistance to determine total external static pressure.

AIRFLOW CORRECTION FACTORS—15 TON [52.8 kW]

ACTUAL—CFM [L/s]	4800 [2265]	5000 [2360]	5200 [2454]	5400 [2549]	5600 [2643]	5800 [2737]	6000 [2832]	6200 [2926]	6400 [3020]	6600 [3115]	6800 [3209]	7000 [3304]	7200 [3398]
TOTAL MBTUH	.964	.970	.976	.982	.988	.994	1.000	1.006	1.012	1.018	1.024	1.030	1.036
SENSIBLE MBTUH	.907	.922	.938	.953	.969	.984	1.000	1.016	1.031	1.047	1.062	1.078	1.093
POWER kW	.988	.990	.992	.995	.997	.999	1.000	1.004	1.007	1.009	1.011	1.014	1.016

NOTES: 1. Multiply correction factor times gross performance data.
2. Resulting sensible capacity cannot exceed total capacity.

[ ] Designates Metric Conversions

AIRFLOW PERFORMANCE—20 & 25 TON [70.3 & 87.9 kW]

Air Flow CFM [L/s]	Capacity 20 & 25 Ton [70.3 & 87.9 kW]																																					
	External Static Pressure—Inches of Water [kPa]																																					
	0.1 [.02]		0.2 [.05]		0.3 [.07]		0.4 [.10]		0.5 [.12]		0.6 [.15]		0.7 [.17]		0.8 [.20]		0.9 [.22]		1.0 [.25]		1.1 [.27]		1.2 [.30]		1.3 [.32]		1.4 [.35]		1.5 [.37]		1.6 [.40]		1.7 [.42]		1.8 [.45]		1.9 [.47]		2.0 [.50]	
	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W
6400 [3020]	701	2468	720	2611	740	2755	759	2899	779	3042	798	3186	817	3329	837	3473	856	3616	876	3760	932	3854	945	4033	958	4212	971	4391	983	4570	996	4749	1009	4928	1022	5108	1035	5287	1048	5466
6600 [3115]	717	2711	736	2855	756	2998	775	3142	795	3286	814	3429	834	3573	853	3716	872	3860	928	3980	941	4159	954	4338	967	4517	980	4696	992	4876	1005	5055	1018	5234	1031	5413	1044	5592	1057	5771
6800 [3209]	733	2955	752	3098	772	3242	791	3385	811	3529	830	3673	850	3816	869	3960	924	4106	937	4285	950	4464	963	4643	976	4823	989	5002	1001	5181	1014	5360	1027	5539	1040	5718	1053	5897	1066	6076
7000 [3304]	749	3198	768	3342	788	3485	807	3629	827	3772	846	3916	866	4060	920	4232	933	4411	946	4591	959	4770	972	4949	985	5128	998	5307	1010	5486	1023	5665	1036	5844	1049	6024	1062	6203	1075	6382
7200 [3398]	765	3442	784	3585	804	3729	823	3872	843	4016	862	4160	882	4303	929	4538	942	4717	955	4896	968	5075	981	5254	994	5433	1007	5612	1019	5791	1032	5971	1045	6150	1058	6329	1071	6508	1084	6687
7400 [3492]	781	3685	801	3829	820	3972	839	4116	859	4259	878	4403	925	4664	938	4843	951	5022	964	5201	977	5380	990	5559	1003	5739	1015	5918	1028	6097	1041	6276	1054	6455	1067	6634	1080	6813	1093	6992
7600 [3587]	797	3929	817	4072	836	4216	855	4359	875	4503	921	4790	934	4969	947	5148	960	5327	973	5506	986	5686	999	5865	1012	6044	1024	6223	1037	6402	1050	6581	1063	6760	1076	6940	1089	7119	1102	7298
7800 [3681]	813	4172	833	4316	852	4459	871	4603	917	4916	930	5095	943	5274	956	5454	969	5633	982	5812	995	5991	1008	6170	1021	6349	1033	6528	1046	6707	1059	6887	1072	7066	1085	7245	1098	7424	—	—
8000 [3776]	829	4415	849	4559	868	4703	913	5042	926	5221	939	5401	952	5580	965	5759	978	5938	991	6117	1004	6296	1017	6475	1030	6655	1042	6834	1055	7013	1068	7192	1081	7371	—	—	—	—	—	—
8200 [3870]	845	4659	865	4802	910	5169	922	5348	935	5527	948	5706	961	5885	974	6064	987	6243	1000	6422	1013	6602	1026	6781	1039	6960	1051	7139	1064	7318	—	—	—	—	—	—	—	—	—	—
8400 [3964]	861	4902	881	5046	919	5474	931	5653	944	5832	957	6011	970	6190	983	6369	996	6549	1009	6728	1022	6907	1035	7086	1048	7265	—	—	—	—	—	—	—	—	—	—	—	—	—	—
8600 [4059]	877	5146	915	5600	928	5779	940	5958	953	6137	966	6317	979	6496	992	6675	1005	6854	1018	7033	1031	7212	1044	7391	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
8800 [4153]	911	5726	924	5905	936	6084	949	6264	962	6443	975	6622	988	6801	1001	6980	1014	7159	1027	7338	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
9000 [4248]	920	6032	933	6211	945	6390	958	6569	971	6748	984	6927	997	7106	1010	7285	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
9200 [4342]	929	6337	942	6516	954	6695	967	6874	980	7053	993	7233	1006	7412	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
9400 [4436]	938	6642	951	6821	963	7000	976	7180	989	7359	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
9600 [4531]	947	6948	960	7127	972	7306	985	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

NOTE: L-Drive left of bold line, M-Drive right of bold line.

Drive Package	L						M					
Motor H.P. [W]	5.0 [3728.5]						7.5 [5592.7]					
Blower Sheave	BK95						BK90					
Motor Sheave	1VP-50						1VP-60					
Turns Open	**1**	2	3	4	5	6	1	2	3	**4**	5	6
RPM	**882**	846	810	773	736	700	1102	1075	1047	**1006**	964	922

NOTES: 1. Factory sheave settings are shown in bold type.
2. Do not set motor sheave below minimum turns open shown.
3. Re-adjustment of sheave required to achieve rated airflow at ARI minimum E.S.P.
4. Drive data shown is for horizontal airflow with dry coil. Add component resistance to duct resistance to determine total E.S.P.

COMPONENT AIR RESISTANCE— 20 & 25 TON [70.3 & 87.9 kW]

CFM [L/s]	6400 [3020]	6800 [3209]	7200 [3398]	7600 [3587]	8000 [3776]	8400 [3964]	8800 [4153]	9200 [4342]	9600 [4531]
Wet Coil	.10	.12	.15	.17	.20	.22	.25	.27	.30
Downflow	.03	.04	.05	.06	.08	.09	.10	.11	.13
Economizer R.A. Damper Open	.16	.17	.18	.23	.21	.23	.24	.27	.28
Horizontal Economizer	.12	.19	.13	.18	.25	.30	.40	—	—
Concentric Grill & Transition	.31	.35	.39	.43	.50	.56	.63	.69	.75

NOTE: Add component resistance to duct resistance to determine total external static pressure.

AIRFLOW CORRECTION FACTORS—20 TON [70.3 kW]

ACTUAL—CFM [L/s]	5800 [2737]	6000 [2832]	6200 [2926]	6400 [3020]	6600 [3115]	6800 [3209]	7000 [3304]	7200 [3398]	7400 [3492]	7600 [3587]	7800 [3681]	8000 [3776]	8200 [3870]	8400 [3964]	8600 [4059]	8800 [4153]	9000 [4248]
TOTAL MBTUH	.961	.966	.970	.975	.980	.985	.990	.995	1.000	1.005	1.010	1.015	1.020	1.025	1.030	1.034	1.039
SENSIBLE MBTUH	.899	.912	.924	.937	.949	.962	.975	.987	1.000	1.012	1.025	1.038	1.050	1.063	1.075	1.088	1.101
POWER kW	.984	.987	.989	.991	.993	.995	.997	.999	1.000	1.004	1.006	1.008	1.010	1.012	1.014	1.016	1.019

AIRFLOW CORRECTION FACTORS—25 TON [87.9 kW]

ACTUAL—CFM [L/s]	5800 [2737]	6000 [2832]	6200 [2926]	6400 [3020]	6600 [3115]	6800 [3209]	7000 [3304]	7200 [3398]	7400 [3492]	7600 [3587]	7800 [3681]	8000 [3776]	8200 [3870]	8400 [3964]	8600 [4059]	8800 [4153]	9000 [4248]
TOTAL MBTUH	.944	.948	.952	.957	.961	.965	.970	.974	.978	.983	.987	.991	.996	1.000	1.004	1.009	1.013
SENSIBLE MBTUH	.856	.867	.878	.889	.900	.911	.922	.933	.945	.956	.967	.978	.989	1.000	1.011	1.022	1.033
POWER kW	.977	.979	.980	.982	.984	.986	.987	.989	.991	.993	.995	.996	.998	1.000	1.002	1.004	1.006

NOTES: 1. Multiply correction factor times gross performance data. 2. Resulting sensible capacity cannot exceed total capacity.

[ ] Designates Metric Conversions

ELECTRICAL DATA—RLKB- SERIES

Model No. RLKB-	Unit Information				Evaporator Fan					
	Unit Operating Voltage Range	Minimum Circuit Ampacity	Minimum Overcurrent Protection Device Size	Maximum Overcurrent Protection Device Size	No.	Volts	Phase	HP	Amps (FLA)	Amps (LRA)
A180CL	187-253	74/74	80/80	80/80	1	208/230	3	3	11.5	74.5
A180CM	187-253	77/77	80/80	80/80	1	208/230	3	5	14.7	82.6
A180DL	414-506	43/43	45/45	45/45	1	460	3	3	7	38.1
A180DM	414-506	46/46	50/50	50/50	1	460	3	5	10	41.3
A180YL	518-633	34/34	35/35	35/35	1	575	3	3	8	20
A180YM	518-633	34/34	35/35	35/35	1	575	3	5	8	33
A240CL	187-253	100/100	110/110	110/110	1	208/230	3	5	14.7	82.6
A240CM	187-253	108/108	125/125	125/125	1	208/230	3	7.5	22.3	136
A240DL	414-506	58/58	60/60	60/60	1	460	3	5	10	41.3
A240DM	414-506	59/59	60/60	60/60	1	460	3	7.5	11.2	68
A240YL	518-633	45/45	50/50	50/50	1	575	3	5	8	33
A240YM	518-633	46/46	50/50	50/50	1	575	3	7.5	8.8	53.8
A300CL	187-253	114/114	125/125	125/125	1	208/230	3	5	14.7	82.6
A300CM	187-253	122/122	125/125	125/125	1	208/230	3	7.5	22.3	136
A300DL	414-506	61	70	70	1	460	3	5	10	41.3
A300DM	414-506	62	70	70	1	460	3	7.5	11.2	68
A300YL	518-633	49	50	50	1	575	3	5	8	33
A300YM	518-633	49	50	50	1	575	3	7.5	8.8	53.8

ELECTRICAL DATA—RLKB- SERIES

Model No. RLKB-	Compressor Motor							Condenser Motor					
	No.	Volts	Phase	HP[2]	RPM	Amps[1] (RLA)	Amps[1] (LRA)	No.	Volts	Phase	HP[2]	Amps[1] (FLA)	Amps[1] (LRA)
A180CL	4	200/240	3	3 1/2	3450	12.4/12.4	88/88	4	208/230	1	1/3	2.4	4.7
A180CM	4	200/240	3	3 1/2	3450	12.4/12.4	88/88	4	208/230	1	1/3	2.4	4.7
A180DL	4	460	3	3 1/2	3450	6.4	44	4	460	1	1/3	2	2.4
A180DM	4	460	3	3 1/2	3450	6.4	44	4	460	1	1/3	2	2.4
A180YL	4	575	3	3 1/2	3450	5	34	4	575	1	1/3	1	1.5
A180YM	4	575	3	3 1/2	3450	5	34	4	575	1	1/3	1	1.5
A240CL	4	200/240	3	4 3/4	3450	17.8/17.8	124/124	4	208/230	1	1/3	2.4	4.7
A240CM	4	200/240	3	4 3/4	3450	17.8/17.8	124/124	4	208/230	1	1/3	2.4	4.7
A240DL	4	460	3	4 3/4	3450	9.3	59.6	4	460	1	1/3	2	2.4
A240DM	4	460	3	4 3/4	3450	9.3	59.6	4	460	1	1/3	2	2.4
A240YL	4	575	3	4 3/4	3450	7.7	49.4	4	575	1	1/3	1	1.5
A240YM	4	575	3	4 3/4	3450	7.7	49.4	4	575	1	1/3	1	1.5
A300CL	4	200/240	3	6	3450	21/21	156/156	4	208/230	1	1/2	2.3	5.6
A300CM	4	200/240	3	6	3450	21/21	156/156	4	208/230	1	1/2	2.3	5.6
A300DL	4	460	3	6	3450	10.4	75	4	460	1	1/2	1.5	2.9
A300DM	4	460	3	6	3450	10.4	75	4	460	1	1/2	1.5	2.9
A300YL	4	575	3	6	3450	8.5	54	4	575	1	1/2	1	2.2
A300YM	4	575	3	6	3450	8.5	54	4	575	1	1/2	1	2.2

1. Horsepower Per Compressor.
2. Amp Draw Per Motor. Multiply Value By Number of Motors to Determine Total Amps.

ELECTRICAL DATA—RLMB- SERIES

Model No. RLMB-	Unit Information				Evaporator Fan					
	Unit Operating Voltage Range	Minimum Circuit Ampacity	Minimum Overcurrent Protection Device Size	Maximum Overcurrent Protection Device Size	No.	Volts	Phase	HP	Amps (FLA)	Amps (LRA)
A180CL	187-253	74/74	80/80	80/80	1	208/230	3	3	11.5	74.5
A180CM	187-253	77/77	80/80	80/80	1	208/230	3	5	14.7	82.6
A180DL	414-506	43/43	45/45	45/45	1	460	3	3	7	38.1
A180DM	414-506	46/46	50/50	50/50	1	460	3	5	10	41.3
A180YL	518-633	34/34	35/35	35/35	1	575	3	3	8	20
A180YM	518-633	34/34	35/35	35/35	1	575	3	5	8	33
A240CL	187-253	100/100	110/110	110/110	1	208/230	3	5	14.7	82.6
A240CM	187-253	108/108	110/110	110/110	1	208/230	3	7.5	22.3	136
A240DL	414-506	58/58	60/60	60/60	1	460	3	5	10	41.3
A240DM	414-506	59/59	60/60	60/60	1	460	3	7.5	11.2	68
A240YL	518-633	45/45	45/45	45/45	1	575	3	5	8	33
A240YM	518-633	46/46	50/50	50/50	1	575	3	7.5	8.8	53.8

ELECTRICAL DATA—RLMB- SERIES

Model No. RLMB-	Compressor Motor							Condenser Motor					
	No.	Volts	Phase	HP[2]	RPM	Amps[1] (RLA)	Amps[1] (LRA)	No.	Volts	Phase	HP[2]	Amps[1] (FLA)	Amps[1] (LRA)
A180CL	4	200/240	3	3 1/2	3450	12.4/12.4	88/88	4	208/230	1	1/3	2.4	4.7
A180CM	4	200/240	3	3 1/2	3450	12.4/12.4	88/88	4	208/230	1	1/3	2.4	4.7
A180DL	4	460	3	3 1/2	3450	6.4	44	4	460	1	1/3	2	2.4
A180DM	4	460	3	3 1/2	3450	6.4	44	4	460	1	1/3	2	2.4
A180YL	4	575	3	3 1/2	3450	5	34	4	575	1	1/3	1	1.5
A180YM	4	575	3	3 1/2	3450	5	34	4	575	1	1/3	1	1.5
A240CL	4	200/240	3	4 3/4	3450	17.5/17.5	123/123	4	208/230	1	1/3	2.4	4.7
A240CM	4	200/240	3	4 3/4	3450	17.5/17.5	123/123	4	208/230	1	1/3	2.4	4.7
A240DL	4	460	3	4 3/4	3450	9.3	62	4	460	1	1/3	2	2.4
A240DM	4	460	3	4 3/4	3450	9.3	62	4	460	1	1/3	2	2.4
A240YL	4	575	3	4 3/4	3450	7.7	50	4	575	1	1/3	1	1.5
A240YM	4	575	3	4 3/4	3450	7.7	50	4	575	1	1/3	1	1.5

1. Horsepower Per Compressor.
2. Amp Draw Per Motor. Multiply Value By Number of Motors to Determine Total Amps.

ELECTRICAL DATA—RLNB- SERIES

Model No. RLNB-	Unit Information				Evaporator Fan					
	Unit Operating Voltage Range	Minimum Circuit Ampacity	Minimum Overcurrent Protection Device Size	Maximum Overcurrent Protection Device Size	No.	Volts	Phase	HP	Amps (FLA)	Amps (LRA)
A180CL	187-253	72/72	80/80	90/90	1	208/230	3	3	11.5	74.5
A180CM	187-253	75/75	80/80	90/90	1	208/230	3	5	14.7	82.6
A180DL	414-506	42	45	50	1	460	3	3	7	38.1
A180DM	414-506	45	45	50	1	460	3	5	10	41.3
A180YL	518-632	35	35	45	1	575	3	3	8	20
A180YM	518-632	35	35	45	1	575	3	5	8	33

ELECTRICAL DATA—RLNB- SERIES

Model No. RLNB-	Compressor Motor							Condenser Motor					
	No.	Volts	Phase	HP[2]	RPM	Amps[1] (RLA)	Amps[1] (LRA)	No.	Volts	Phase	HP[2]	Amps[1] (FLA)	Amps[1] (LRA)
A180CL	2	200/240	3	6 3/4	3450	22.4/22.4	164/164	4	208/230	1	1/3	2.4	4.7
A180CM	2	200/240	3	6 3/4	3450	22.4/22.4	164/164	4	208/230	1	1/3	2.4	4.7
A180DL	2	460	3	6 3/4	3450	11.8	100	4	460	1	1/3	2	2.4
A180DM	2	460	3	6 3/4	3450	11.8	100	4	460	1	1/3	2	2.4
A180YL	2	575	3	6 3/4	3450	10.2	78	4	575	1	1/3	1	1.5
A180YM	2	575	3	6 3/4	3450	10.2	78	4	575	1	1/3	1	1.5

1. Horsepower Per Compressor.
2. Amp Draw Per Motor. Multiply Value By Number of Motors to Determine Total Amps.

UNITS WITH HEATER KITS (208-240/3 PHASE)

Size Unit	Heater Kit Model No. RXJJ-	Heater kW 208-240V	Heater Kit FLA	Minimum Circuit Ampacity	Max. Fuse or Circuit Breaker
A180CL	CD20C CD40C CD60C CD75C	14.4/19.2 28.8/38.4 43.2/57.6 54.0/72.0	40.0/46.2 79.9/92.4 119.9/138.6 149.9/173.2	74/74 115/130 165/188 202/231	80/80 125/150 175/200 225/250
A180CM	CD20C CD40C CD60C CD75C	14.4/19.2 28.8/38.4 43.2/57.6 54.0/72.0	40.0/46.2 79.9/92.4 119.9/138.6 149.9/173.2	77/77 119/134 169/192 206/235	80/80 125/150 175/200 225/250
A240CL	CD20C CD40C CD60C CD75C	14.4/19.2 28.8/38.4 43.2/57.6 54.0/72.0	40.0/46.2 79.9/92.4 119.9/138.6 149.9/173.2	100/100 119/134 169/192 206/235	110/110 125/150 175/200 225/250
A240CM	CD20C CD40C CD60C CD75C	14.4/19.2 28.8/38.4 43.2/57.6 54.0/72.0	40.0/46.2 79.9/92.4 119.9/138.6 149.9/173.2	108/108 128/144 178/202 216/245	125/125 150/150 200/225 225/250
A300CL	CD20C CD40C CD60C CD75C	14.4/19.2 28.8/38.4 43.2/57.6 54.0/72.0	40.0/46.2 79.9/92.4 119.9/138.6 149.9/173.2	114/114 119/134 169/192 206/235	125/125 125/150 175/200 225/250
A300CM	CD20C CD40C CD60C CD75C	14.4/19.2 28.8/38.4 43.2/57.6 54.0/72.0	40.0/46.2 79.9/92.4 119.9/138.6 149.9/173.2	122/122 128/144 178/202 216/245	125/125 150/150 200/225 225/250

UNITS WITH HEATER KITS (480/3 PHASE)

Size Unit	Heater Kit Model No. RXJJ-	Heater kW 480V	Heater Kit FLA	Minimum Circuit Ampacity	Max. Fuse or Circuit Breaker
A180DL	CD20D CD40D CD60D CD75D	19.2 38.4 57.6 72.0	23.1 46.2 69.3 86.6	43 67 96 117	45 70 100 125
A180DM	CD20D CD40D CD60D CD75D	19.2 38.4 57.6 72.0	23.1 46.2 69.3 86.6	46 71 100 121	50 80 100 125
A240DL	CD20D CD40D CD60D CD75D	19.2 38.4 57.6 72.0	23.1 46.2 69.3 86.6	58 71 100 121	60 80 100 125
A240DM	CD20D CD40D CD60D CD75D	19.2 38.4 57.6 72.0	23.1 46.2 69.3 86.6	59 72 101 123	60 80 110 125
A300DL	CD20D CD40D CD60D CD75D	19.2 38.4 57.6 72.0	23.1 46.2 69.3 86.6	61 71 100 121	70 80 100 125
A300DM	CD20D CD40D CD60D CD75D	19.2 38.4 57.6 72.0	23.1 46.2 69.3 86.6	62 72 101 123	70 80 110 125

UNITS WITH HEATER KITS (600/3 PHASE)

Size Unit	Heater Kit Model No. RXJJ-	Heater kW 600V	Heater Kit FLA	Minimum Circuit Ampacity	Max. Fuse or Circuit Breaker
A180YL	CD20Y	19.2	18.5	34	35
	CD40Y	38.4	37.0	57	60
	CD60Y	57.6	55.4	80	80
	CD75Y	72.0	69.3	97	100
A180YM	CD20Y	19.2	18.5	34	35
	CD40Y	38.4	37.0	57	60
	CD60Y	57.6	55.4	80	80
	CD75Y	72.0	69.3	97	100
A240YL	CD20Y	19.2	18.5	45	50
	CD40Y	38.4	37.0	57	60
	CD60Y	57.6	55.4	80	80
	CD75Y	72.0	69.3	97	100
A240YM	CD20Y	19.2	18.5	46	50
	CD40Y	38.4	37.0	58	60
	CD60Y	57.6	55.4	81	90
	CD75Y	72.0	69.3	98	100
A300YL	CD20Y	19.2	18.5	49	50
	CD40Y	38.4	37.0	57	60
	CD60Y	57.6	55.4	80	80
	CD75Y	72.0	69.3	97	100
A300YM	CD20Y	19.2	18.5	49	50
	CD40Y	38.4	37.0	58	60
	CD60Y	57.6	55.4	81	90
	CD75Y	72.0	69.3	98	100

UNITS WITH HEATER KITS (208-240/3 PHASE)

Size Unit	Heater Kit Model No. RXJJ-	Heater kW 208-240V	Heater Kit FLA	Minimum Circuit Ampacity	Max. Fuse or Circuit Breaker
A180CL	CD20C CD40C CD60C CD75C	14.4/19.2 28.8/38.4 43.2/57.6 54.0/72.0	40.0/46.2 79.9/92.4 119.9/138.6 149.9/173.2	74/74 115/130 165/188 202/231	80/80 125/150 175/200 225/250
A180CM	CD20C CD40C CD60C CD75C	14.4/19.2 28.8/38.4 43.2/57.6 54.0/72.0	40.0/46.2 79.9/92.4 119.9/138.6 149.9/173.2	77/77 119/134 169/192 206/235	80/80 125/150 175/200 225/250
A240CL	CD20C CD40C CD60C CD75C	14.4/19.2 28.8/38.4 43.2/57.6 54.0/72.0	40.0/46.2 79.9/92.4 119.9/138.6 149.9/173.2	99/99 119/134 169/192 206/235	110/110 125/150 175/200 225/250
A240CM	CD20C CD40C CD60C CD75C	14.4/19.2 28.8/38.4 43.2/57.6 54.0/72.0	40.0/46.2 79.9/92.4 119.9/138.6 149.9/173.2	107/107 128/144 178/202 216/245	110/110 150/150 200/225 225/250

UNITS WITH HEATER KITS (480/3 PHASE)

Size Unit	Heater Kit Model No. RXJJ-	Heater kW 480V	Heater Kit FLA	Minimum Circuit Ampacity	Max. Fuse or Circuit Breaker
A180DL	CD20D CD40D CD60D CD75D	19.2 38.4 57.6 72.0	23.1 46.2 69.3 86.6	43 67 96 117	45 70 100 125
A180DM	CD20D CD40D CD60D CD75D	19.2 38.4 57.6 72.0	23.1 46.2 69.3 86.6	46 71 100 121	50 80 100 125
A240DL	CD20D CD40D CD60D CD75D	19.2 38.4 57.6 72.0	23.1 46.2 69.3 86.6	57 71 100 121	60 80 100 125
A240DM	CD20D CD40D CD60D CD75D	19.2 38.4 57.6 72.0	23.1 46.2 69.3 86.6	58 72 101 123	60 80 110 125

UNITS WITH HEATER KITS (600/3 PHASE)

Size Unit	Heater Kit Model No. RXJJ-	Heater kW 600V	Heater Kit FLA	Minimum Circuit Ampacity	Max. Fuse or Circuit Breaker
A180YL	CD20Y CD40Y CD60Y CD75Y	19.2 38.4 57.6 72.0	18.5 37.0 55.4 69.3	34 57 80 97	35 60 80 100
A180YM	CD20Y CD40Y CD60Y CD75Y	19.2 38.4 57.6 72.0	18.5 37.0 55.4 69.3	34 57 80 97	35 60 80 100
A240YL	CD20Y CD40Y CD60Y CD75Y	19.2 38.4 57.6 72.0	18.5 37.0 55.4 69.3	43 57 80 97	45 60 80 100
A240YM	CD20Y CD40Y CD60Y CD75Y	19.2 38.4 57.6 72.0	18.5 37.0 55.4 69.3	43 58 81 98	50 60 90 100

UNITS WITH HEATER KITS—RLNB- SERIES

UNITS WITH HEATER KITS (208-240/3 PHASE)

Size Unit	Heater Kit Model No. RXJJ-	Heater kW 280-240V	Heater Kit FLA	Minimum Circuit Ampacity	Max. Fuse or Circuit Breaker
A180CL	CD20C CD40C CD60C CD75C	14.4/19.2 28.8/38.4 43.2/57.6 54.0/72.0	40.0/46.2 79.9/92.4 119.9/138.6 149.9/173.2	74/74 115/130 165/188 202/231	80/80 125/150 175/200 225/250
A180CM	CD20C CD40C CD60C CD75C	14.4/19.2 28.8/38.4 43.2/57.6 54.0/72.0	40.0/46.2 79.9/92.4 119.9/138.6 149.9/173.2	77/77 119/134 169/192 206/235	80/80 125/150 175/200 225/250

UNITS WITH HEATER KITS (480/3 PHASE)

Size Unit	Heater Kit Model No. RXJJ-	Heater kW 480V	Heater Kit FLA	Minimum Circuit Ampacity	Max. Fuse or Circuit Breaker
A180DL	CD20D CD40D CD60D CD75D	19.2 38.4 57.6 72.0	23.1 46.2 69.3 86.6	43 67 96 117	45 70 100 125
A180DM	CD20D CD40D CD60D CD75D	19.2 38.4 57.6 72.0	23.1 46.2 69.3 86.6	46 71 100 121	50 80 100 125

UNITS WITH HEATER KITS (600/3 PHASE)

Size Unit	Heater Kit Model No. RXJJ-	Heater kW 600V	Heater Kit FLA	Minimum Circuit Ampacity	Max. Fuse or Circuit Breaker
A180YL	CD20Y CD40Y CD60Y CD75Y	19.2 38.4 57.6 72.0	18.5 37.0 55.4 69.3	34 57 80 97	35 60 80 100
A180YM	CD20Y CD40Y CD60Y CD75Y	19.2 38.4 57.6 72.0	18.5 37.0 55.4 69.3	34 57 80 97	35 60 80 100

SELF-CONTAINED AIR CONDITIONER

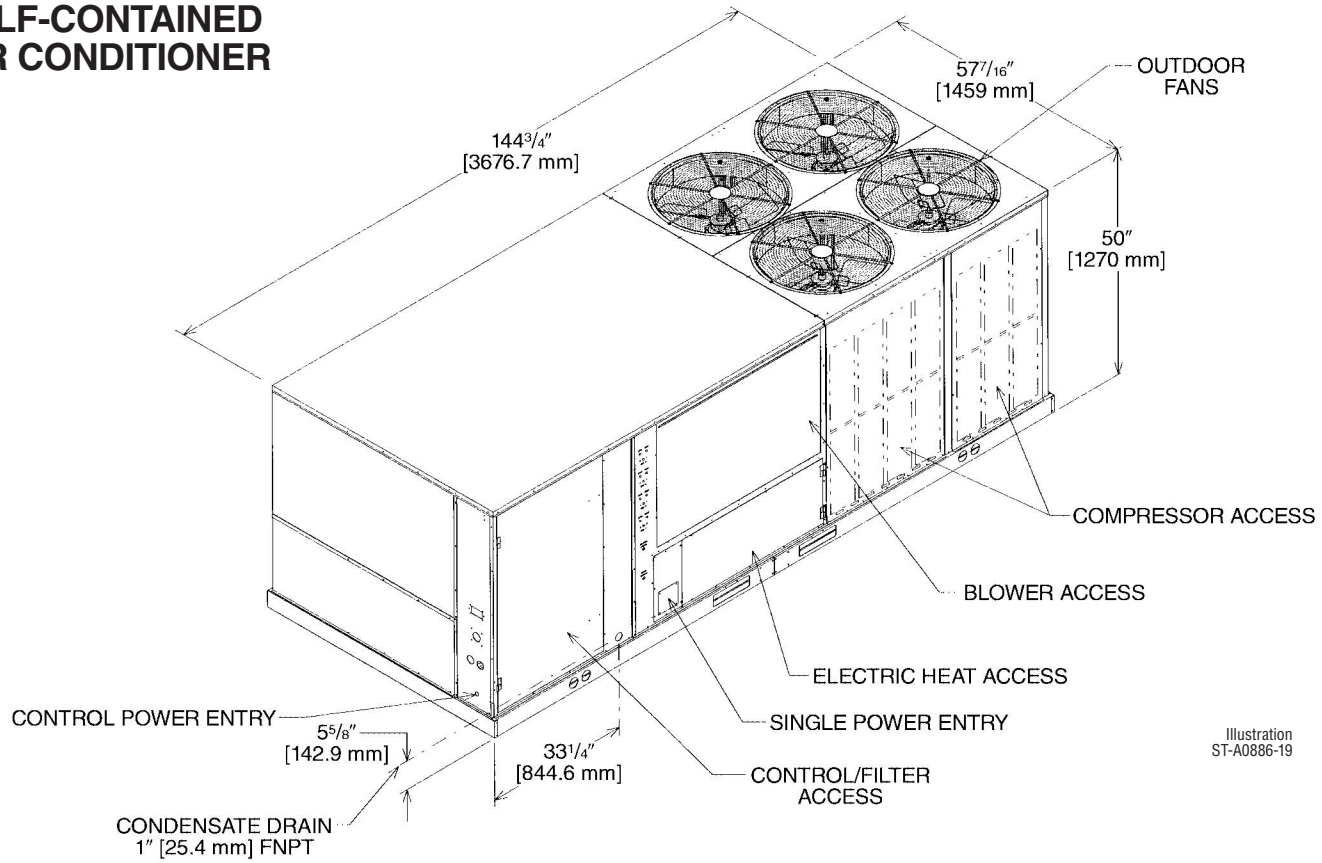


Illustration ST-A0886-19

BOTTOM VIEW

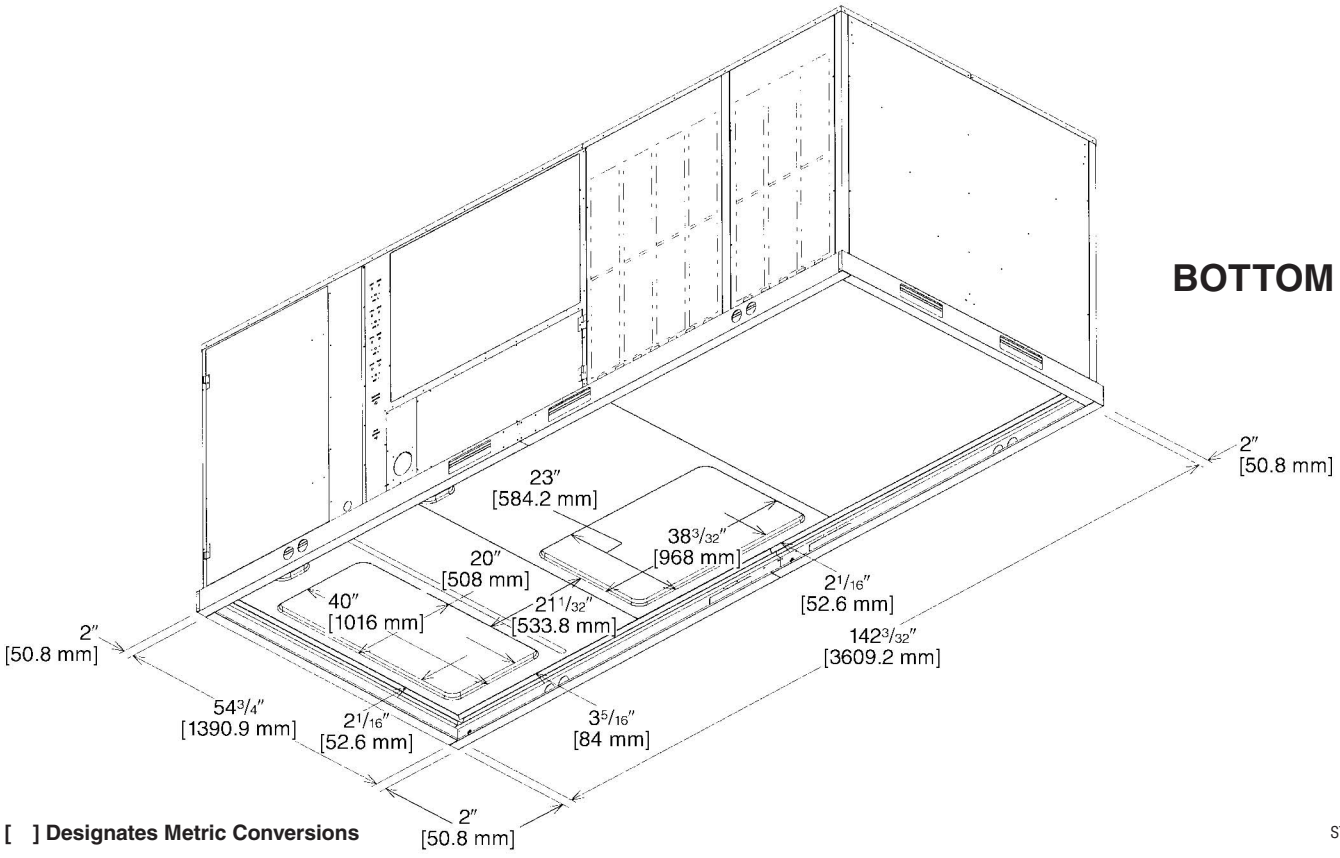


Illustration ST-A0886-16

[ ] Designates Metric Conversions

SELF-CONTAINED AIR CONDITIONER

SUPPLY AND RETURN DIMENSIONS FOR HORIZONTAL APPLICATIONS

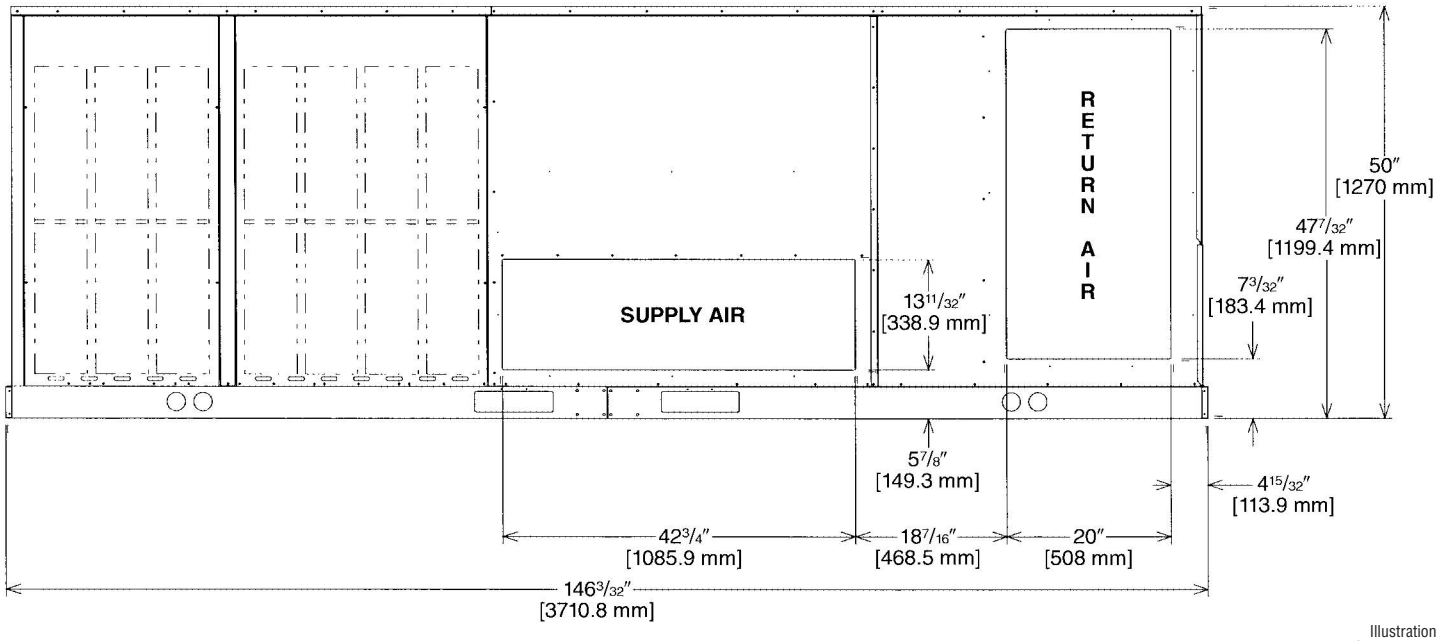


Illustration ST-A0886-21

DUCT SIDE VIEW

SUPPLY AND RETURN DIMENSIONS FOR DOWNFLOW APPLICATIONS

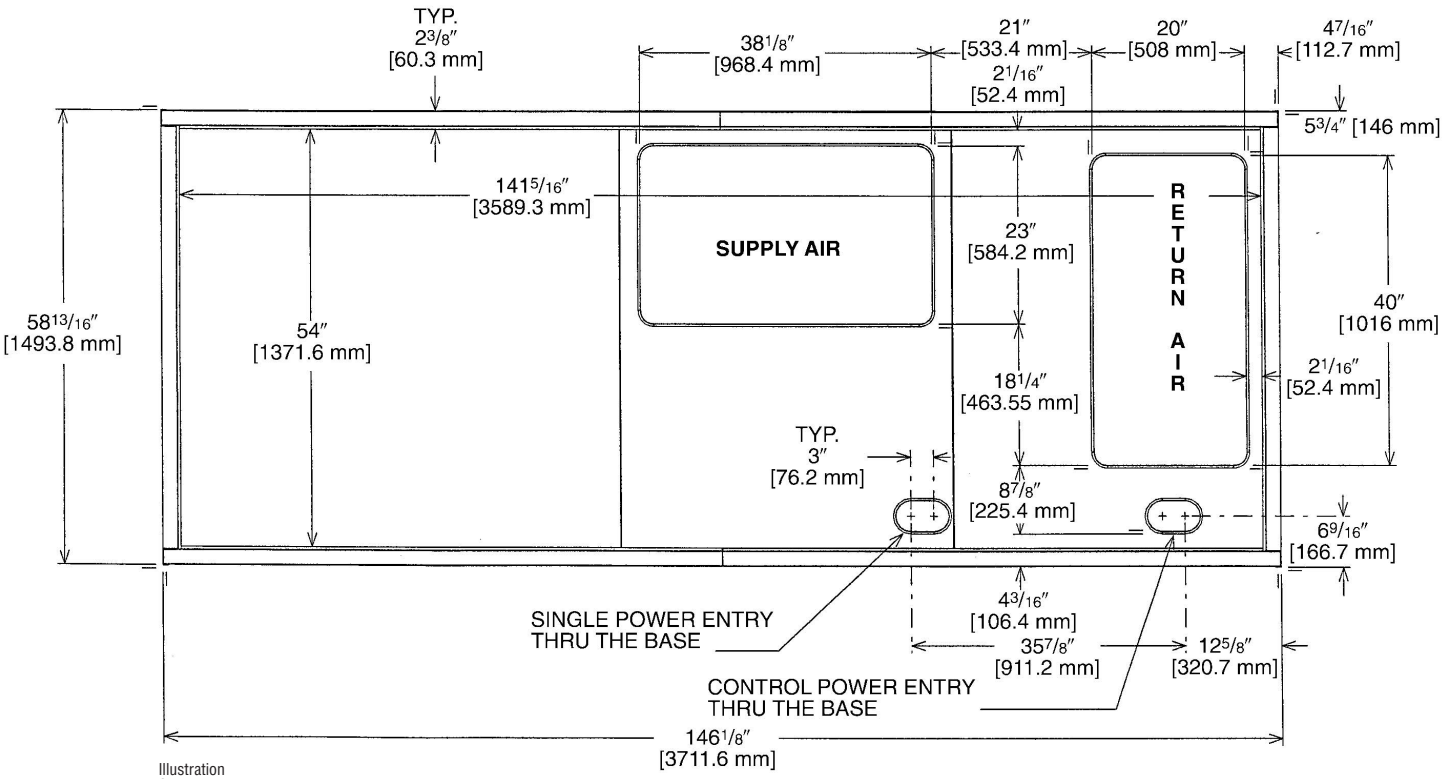


Illustration ST-A0886-20

BOTTOM VIEW

[ ] Designates Metric Conversions

UNIT DIMENSIONS SELF-CONTAINED AIR CONDITIONER

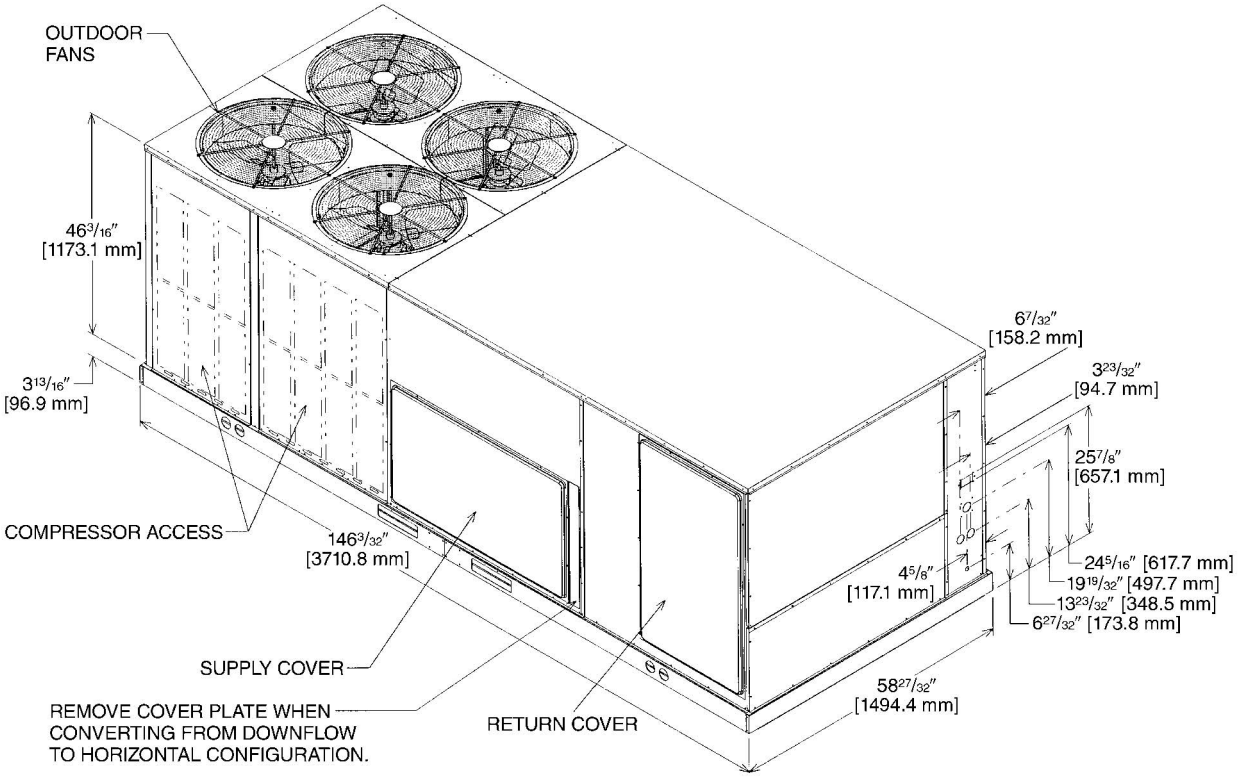


Illustration
ST-A0886-17

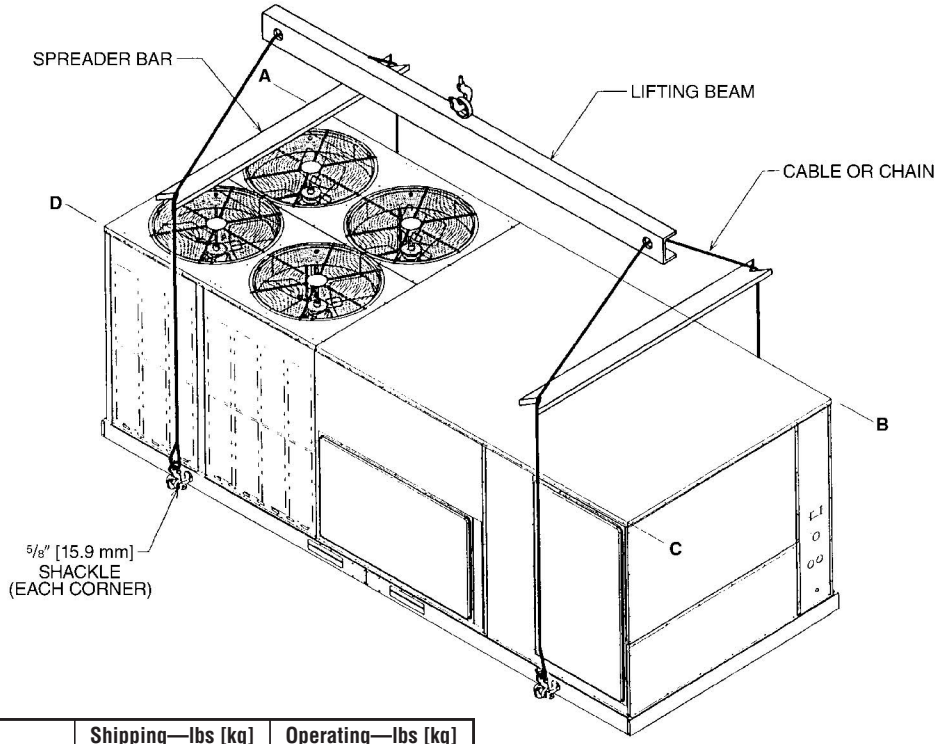


Illustration
ST-A0886-12

WEIGHTS

Accessory	Shipping—lbs [kg]	Operating—lbs [kg]
Economizer–Downflow	155 [70.31]	146 [66.22]
Economizer–Horizontal	165 [74.84]	155 [70.31]
Power Exhaust	44 [19.96]	42 [19.05]
Fresh Air Damper (Manual)	51 [23.13]	40 [18.14]
Fresh Air Damper (Motorized)	46 [20.87]	35 [15.88]
Roof Curb 14"	170 [77.11]	164 [74.39]

Capacity Tons [kW]	Corner Weights by Percentage			
	A	B	C	D
15-25 [52.8-87.9]	30%	26%	20%	24%

SLAB INSTALLATION

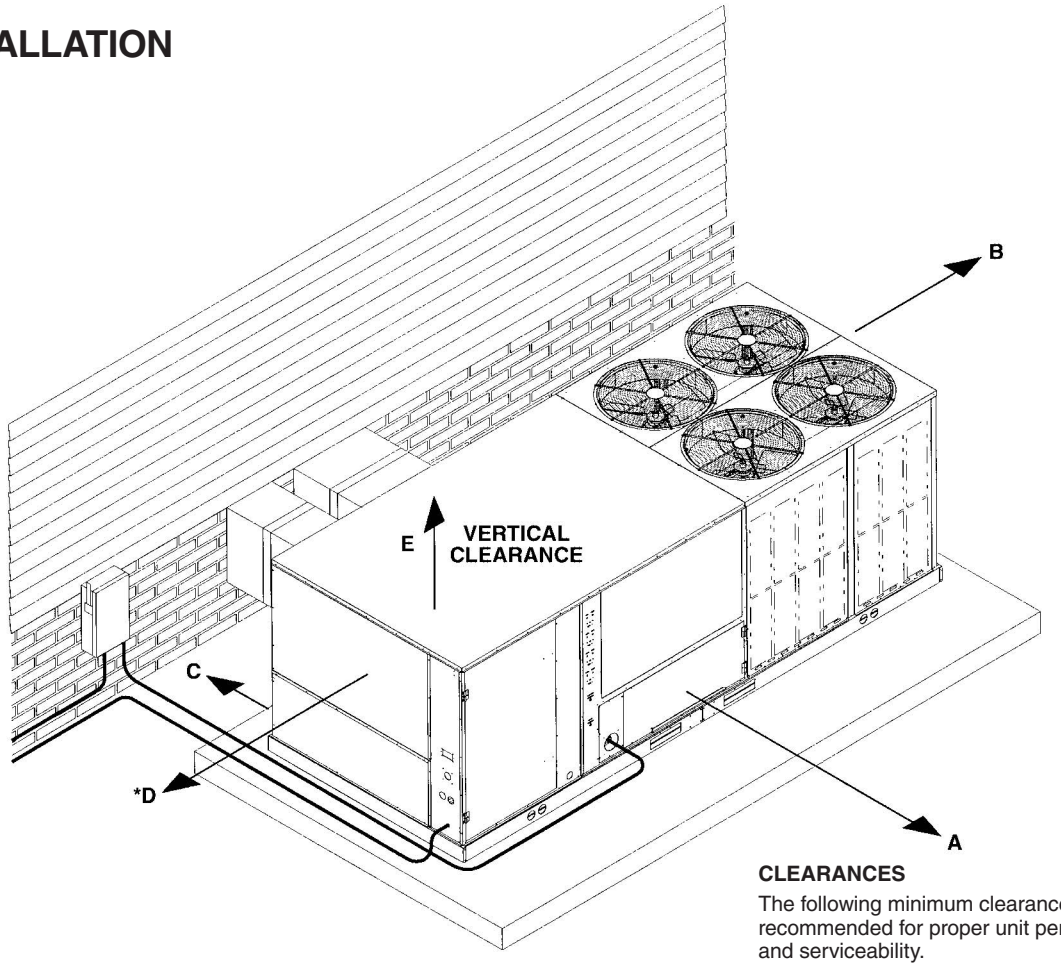


Illustration
ST-A0886-23

CLEARANCES

The following minimum clearances are recommended for proper unit performance and serviceability.

Recommended Clearance In. [mm]	Location
48 [1219]	A - Front
18 [457]	B - Condenser Coil
18 [457]	C - Duct Side
18 [457]	D - Evaporator End
60 [1524]	E - Above
*Without Economizer. 48" [1219 mm] With Economizer	

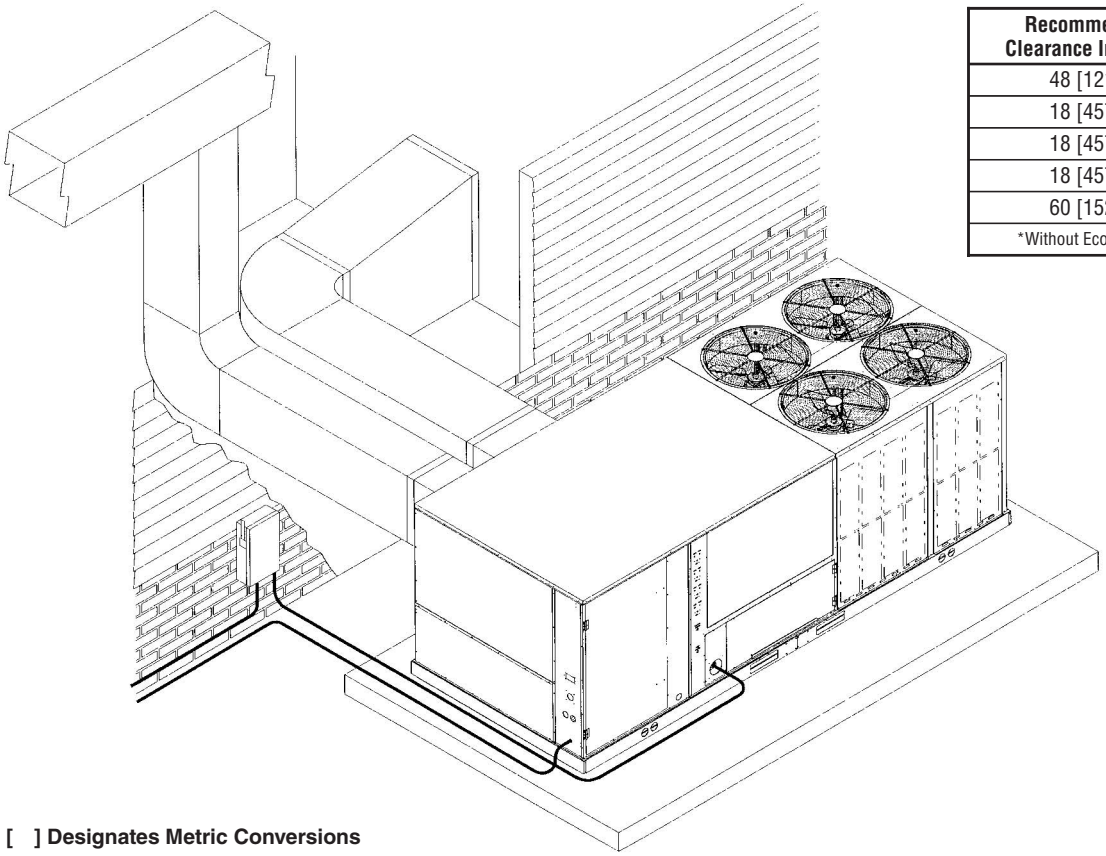


Illustration
ST-A0886-22

[ ] Designates Metric Conversions

FIELD INSTALLED ACCESSORY EQUIPMENT–SELF CONTAINED AIR CONDITIONER

Accessory	Model Number	Shipping Weight Lbs. [kg]	Installed Weight Lbs. [kg]	Factory Installation Available?
Electric Heaters	RXJJ-CD20 (C,D,Y)	41 [18.6]	31 [14.1]	Yes
	RXJJ-CD40 (C,D,Y)	44 [20.0]	34 [15.4]	Yes
	RXJJ-CD60 (C,D,Y)	45 [20.4]	35 [15.9]	Yes
	RXJJ-CD75 (C,D,Y)	46 [20.9]	36 [16.3]	Yes
Economizer w/Single Enthalpy	RXRD-KFCM3	155 [70.3]	146 [66.2]	Yes
Dual Enthalpy Kit	RXRX-AV02	3 [1.4]	1 [.5]	Yes
Horizontal Airflow Economizer w/Single Enthalpy	RXRD-LFCM3	165 [74.8]	155 [70.3]	No
Carbon Dioxide Sensor	RXRX-AR01/AR02	3 [1.4]	2 [1.0]	No
Power Exhaust	RXRX-BFF02 (C,D,Y)	44 [20.0]	42 [19.1]	No
Manual Fresh Air	RXRF-GEA1	51 [23.1]	40 [18.1]	No
Motorized Fresh Air	RXRX-AT01	46 [20.9]	35 [15.9]	No
Roofcurb, 14"	RXKG-BAF14	170 [77.1]	164 [74.4]	No
Roofcurb Adapter RGF-, REF-, RCF- 125, 150, 200 to A180/A240 B-Series	RXRX-CHCE56	398 [180.5]	373 [169.2]	No
Concentric Diffuser (Flush, 18 x 36) -180	RXRN-AD80	213 [96.6]	115 [52.2]	No
Concentric Diffuser (Step-Down, 18 x 36)	RXRN-AD81	310 [141.0]	157 [71.2]	No
Concentric Diffuser (Flush, 24 x 48) -240	RXRN-AD85	270 [122.5]	175 [79.4]	No
Concentric Diffuser (Step-Down, 24 x 48)	RXRN-AD86	367 [166.5]	212 [96.2]	No
Downflow Adapters (Rect. to Rect., 18 x 36)	RXMC-CG07	81 [37.0]	65 [29.5]	No
Downflow Adapters (Rect. to Rect., 24 x 48)	RXMC-CH08	76 [34.5]	53 [24.0]	No
Compressor Time-Delay Relay Kit	RXMD-A05	2 [1.0]	1 [.5]	Yes
Low-Ambient Control Kit	RXRZ-A90	3 [1.4]	2 [1.0]	Yes
Freeze-Stat Kit	RXRX-AM01	1 [.5]	0.5 [.2]	Yes

N/A indicates not available.

[ ] Designates Metric Conversions

ECONOMIZERS—DOWNFLOW ONLY

Field Installed

RXRD-KFCM3—Single Enthalpy (Outdoor)
RXRX-AR01 OR AR02—Optional Wall-Mounted CO_2 Sensor
RXRX-AV02—Dual Enthalpy Upgrade Kit

- Features **Honeywell** Controls
- Available Factory Installed or Field Accessory
- Gear Driven Direct Drive Actuator
- Fully Modulating (0-100%)
- Low Leakage Dampers
- Slip-In Design for Easy Installation
- Plug-In Polarized 12-pin Electrical Connections
- Pre-Configured—No Field Adjustments Necessary
- Standard Barometric Relief Damper
- Single Enthalpy with Dual Enthalpy Upgrade Kit Available
- CO_2 Input Sensor Available
- Field Assembled Hood Ships with Economizer
- Economizer Ships Complete for Downflow Duct Application.
- Optional Remote Minimum Position Potentiometer (Honeywell #S963B1128) is Available from Prostock.
- Field Installed Power Exhaust Available

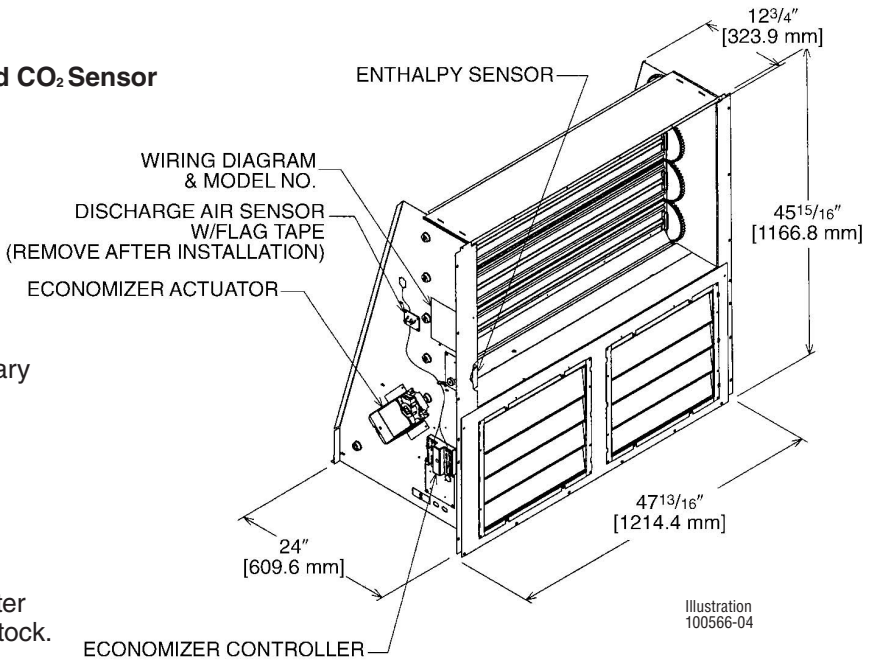


Illustration
100566-04

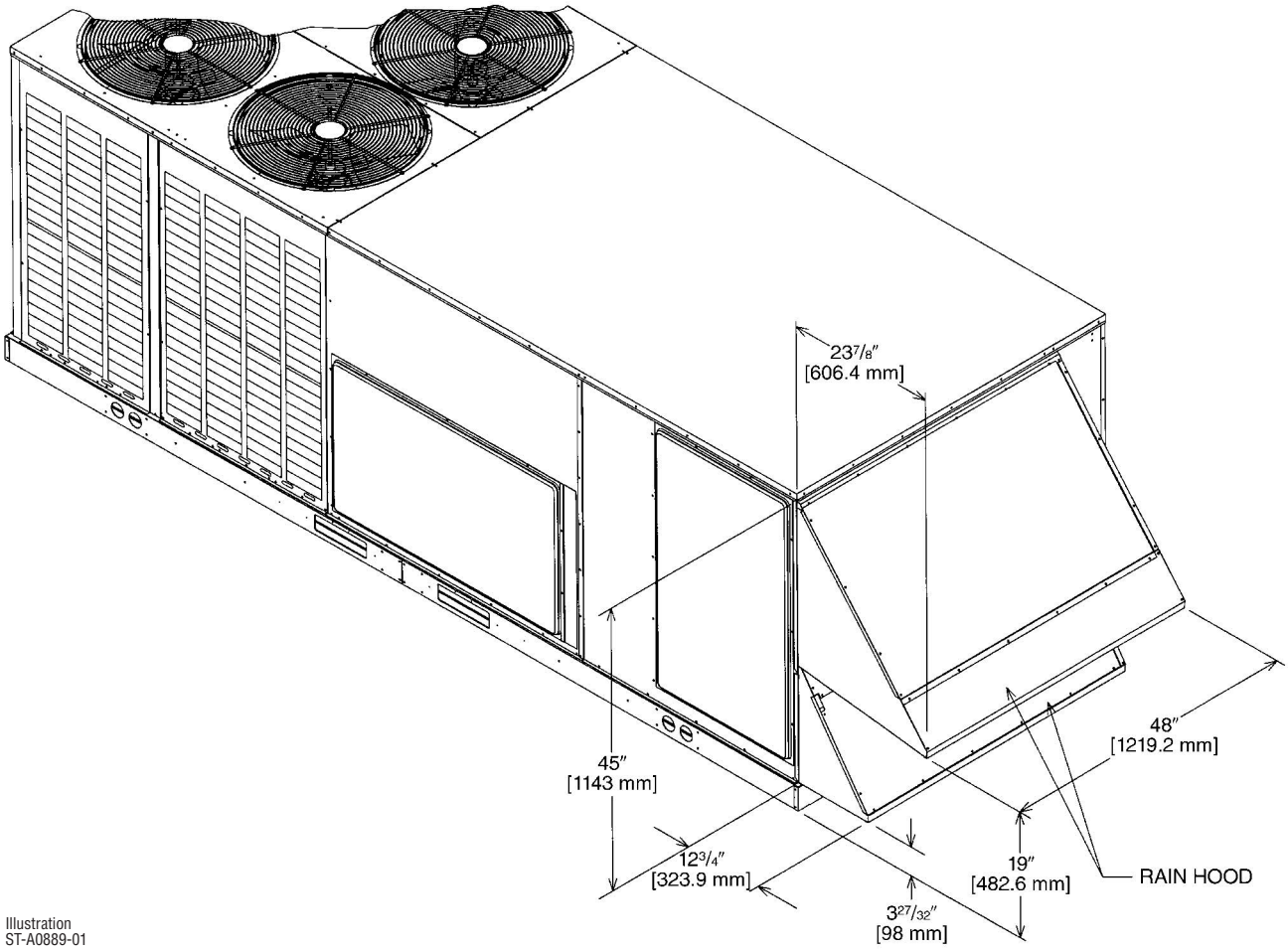


Illustration
ST-A0889-01

[ ] Designates Metric Conversions

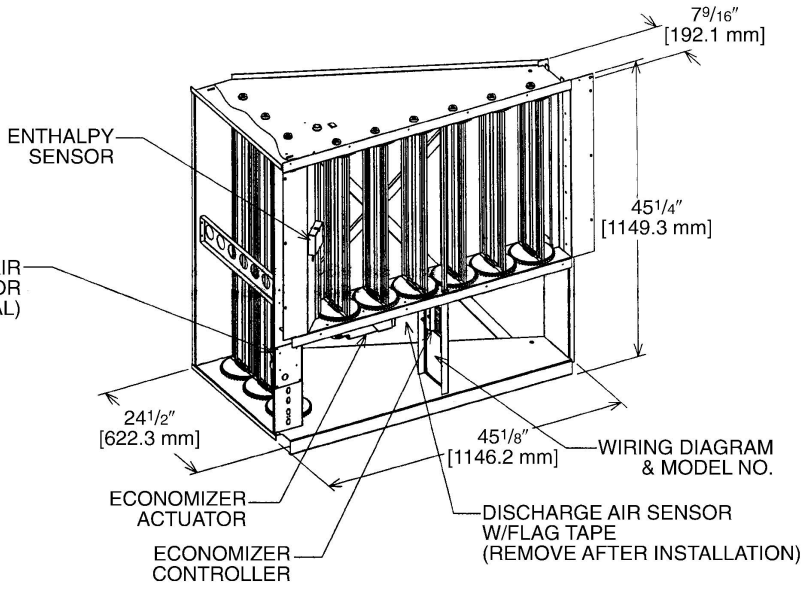
ECONOMIZER FOR HORIZONTAL DUCT INSTALLATION

Field Installed Only

RXRD-LFCM3—Single Enthalpy (Outdoor)
Optional CO_2 Sensor

- Features **Honeywell** Controls
- Available as a Field Installed Accessory Only
- Gear Driven Direct Drive Actuator
- Fully Modulating (0-100%)
- Low Leakage Dampers
- Slip-In Design for Easy Installation
- Plug-In Polarized 12-pin Electrical Connections
- Pre-Configured—No Field Adjustments Necessary
- Standard Barometric Relief Damper
- Single Enthalpy with Dual Enthalpy Upgrade Kit Available
- CO_2 Input Sensor Available
- Field Assembled Hood Ships with Economizer
- Economizer Ships Complete for Horizontal Duct Application
- Optional Remote Minimum Position Potentiometer (Honeywell #S963B1128) is Available from Prostock
- Field Installed Power Exhaust Available

Illustration
100566-06



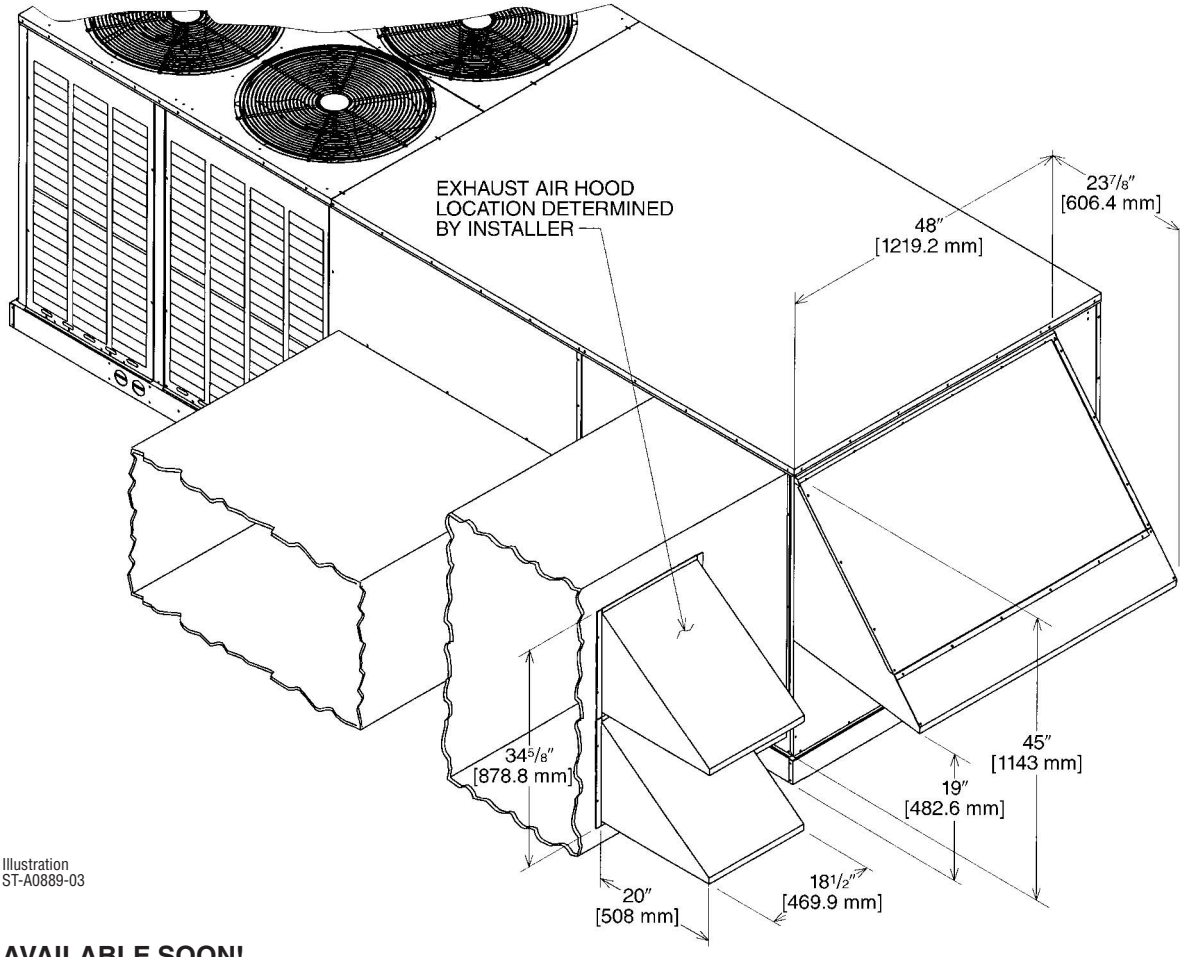


Illustration
ST-A0889-03

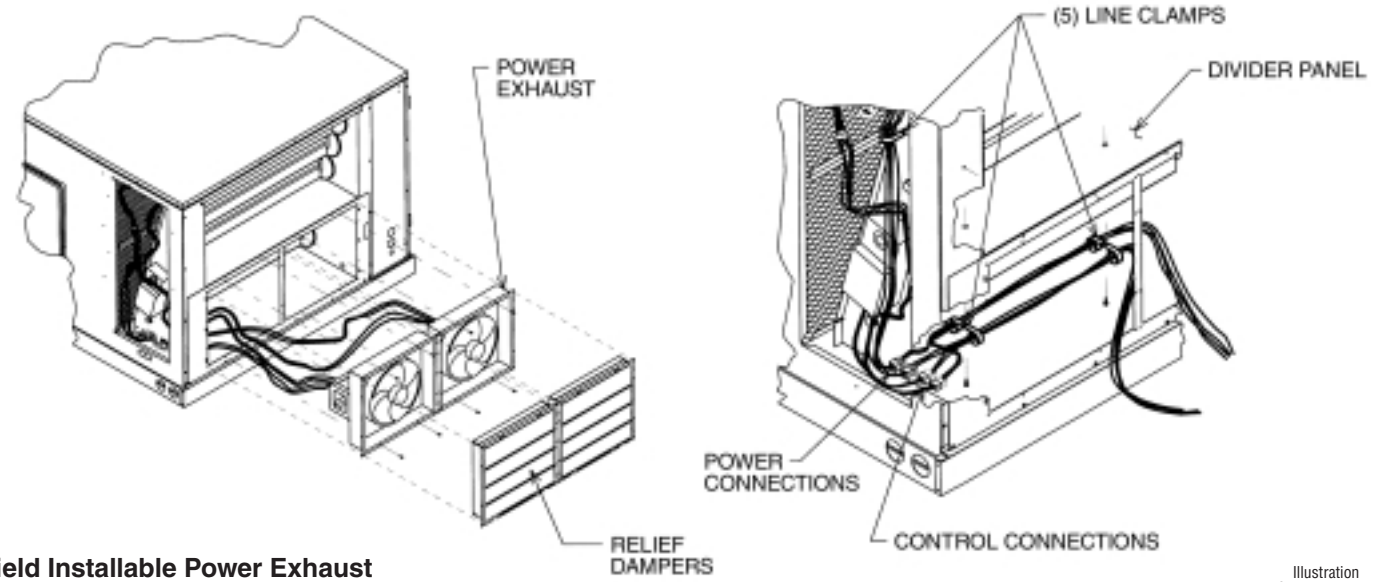
AVAILABLE SOON!

[ ] Designates Metric Conversions

INTEGRAL POWER EXHAUST KIT FOR RXRD-KFCM(-) AND RXRD-LFCM(-) ECONOMIZERS

RXRX-BFF02 (C, D, or Y*)

***Voltage Code**



Field Installable Power Exhaust

Illustration ST-A0876-01

HORIZONTAL AIRFLOW

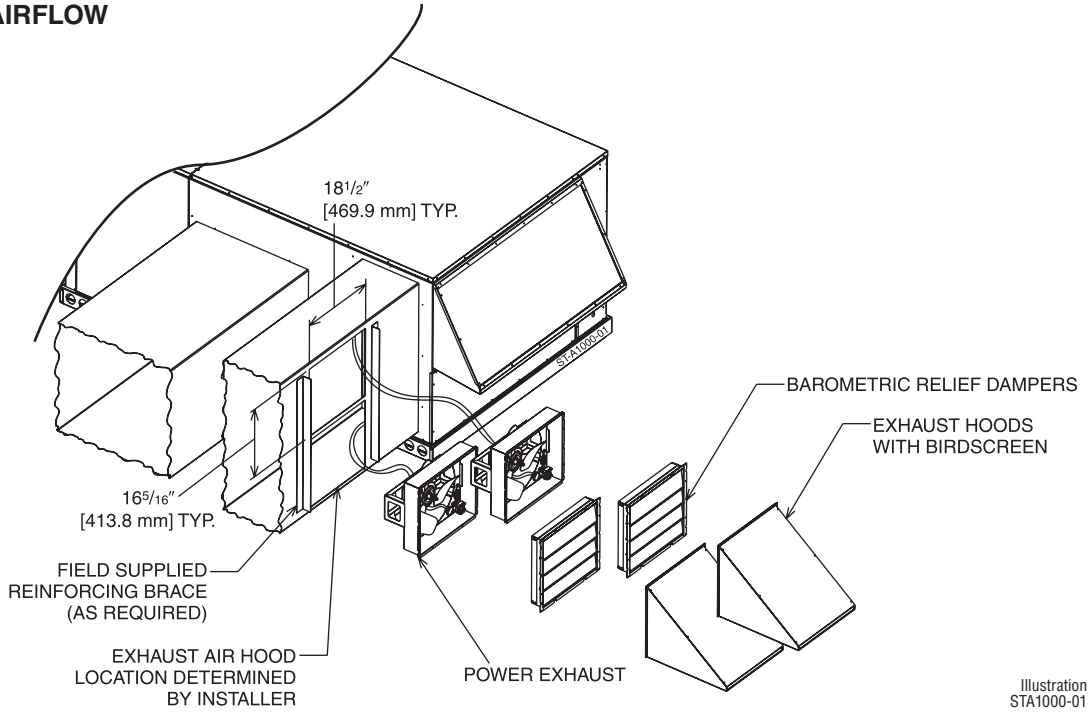


Illustration STA1000-01

Model No.	No. of Fans	Volts	Phase	HP (ea.)	Low Speed		High Speed ①		FLA (ea.)	LRA (ea.)
					CFM [L/s] ②	RPM	CFM [L/s] ②	RPM		
RXRX-BFF02C	2	208-230	1	0.33	2200 [1038]	1518	2500 [1179]	1670	1.48	3.6
RXRX-BFF02D	2	460	1	0.33	2200 [1038]	1518	2500 [1179]	1670	0.75	1.8
RXRX-BFF02Y	2	575	1	0.33	2200 [1038]	1518	2500 [1179]	1670	0.81	1.5

NOTES: ① Power exhaust is factory set on high speed motor tap.
② CFM is per fan at 0" w.c. external static pressure.

[ ] Designates Metric Conversions

FRESH AIR DAMPER

MOTORIZED DAMPER KIT
RXRX-ATO1
(Motor Kit for RXRF-GEA1)

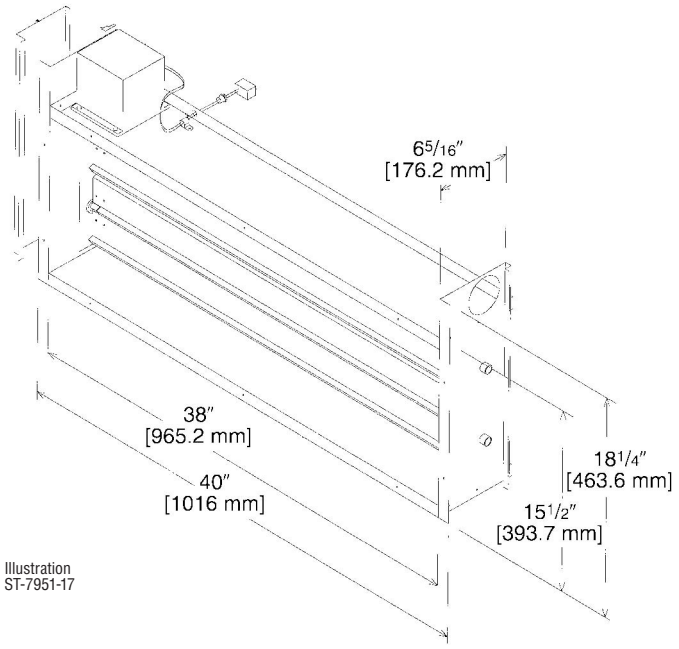
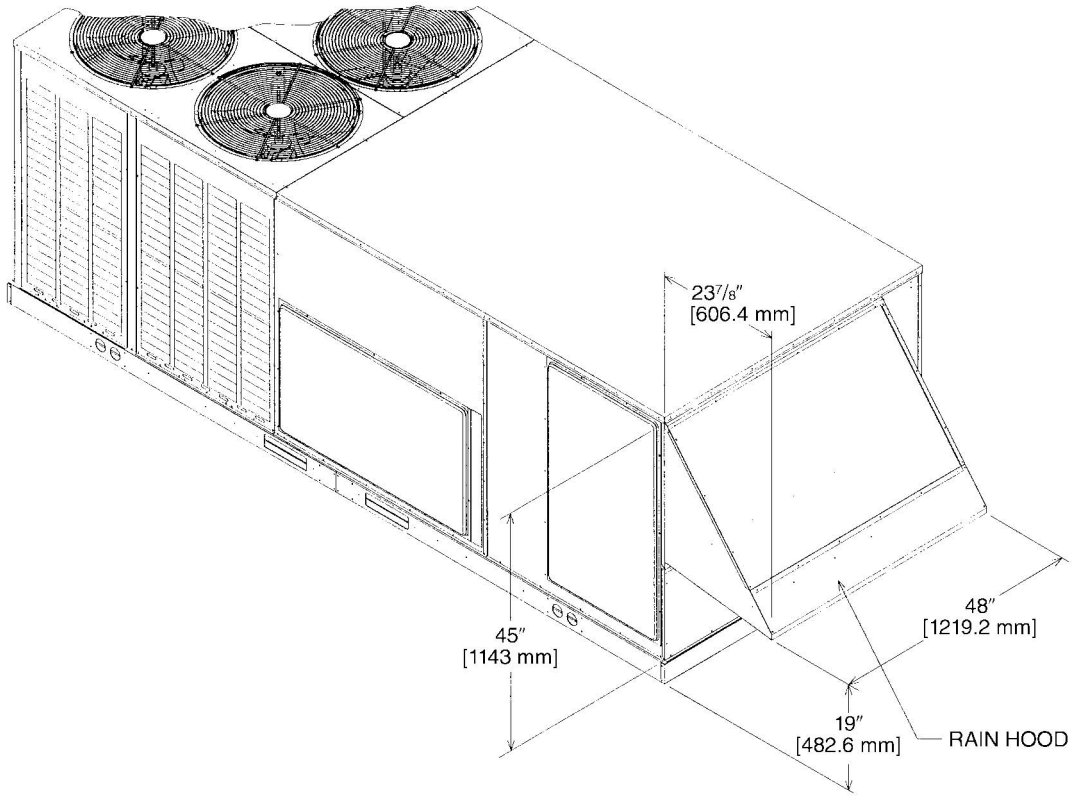


Illustration
ST-7951-17

RXRF-GEA1 (Manual)
RXRX-ATO1 (Motorized damper kit for manual fresh air damper)

Illustration
ST-A0889-02



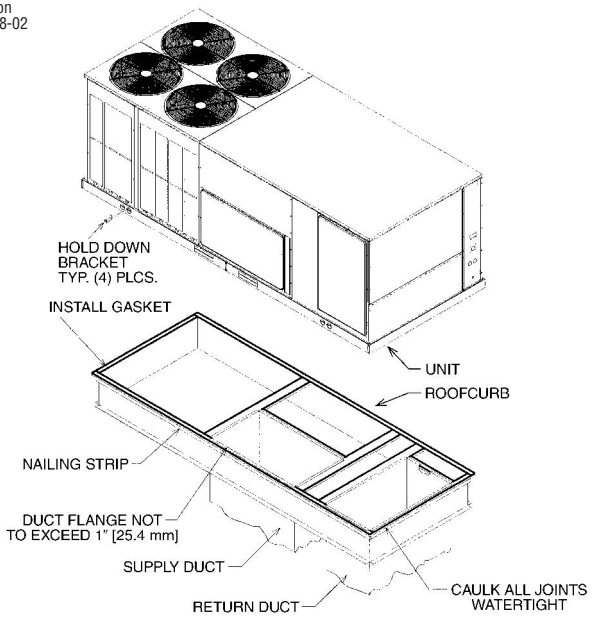
[ ] Designates Metric Conversions

ROOFCURBS (Full Perimeter)

- Rheem's roofcurb design can be utilized on 15 and 25 ton [52.8 and 87.9 kW] models.
- One available height (14" [356 mm]).
- Quick assembly corners for simple and fast assembly.
- 1" [25.4 mm] x 4" [102 mm] Nailer provided.
- Insulating panels not required because of insulated outdoor base pan.
- Sealing gasket (28" [711 mm]) provided with Roofcurb.
- Packaged for easy field assembly.

TYPICAL INSTALLATION

Illustration
ST-A0888-02



ROOFCURB ASSEMBLY

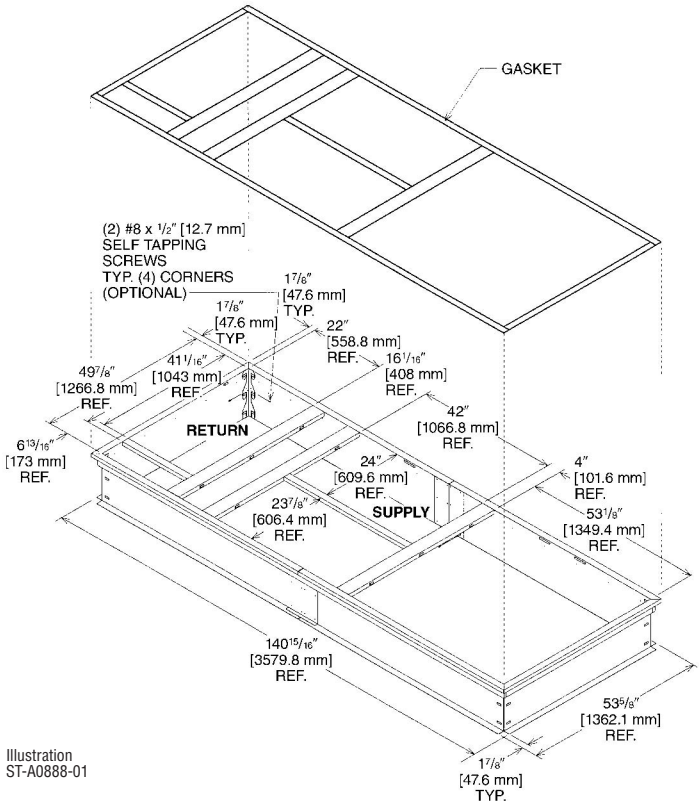
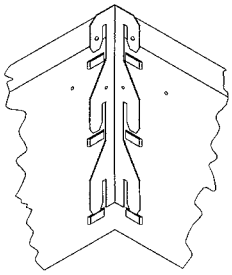
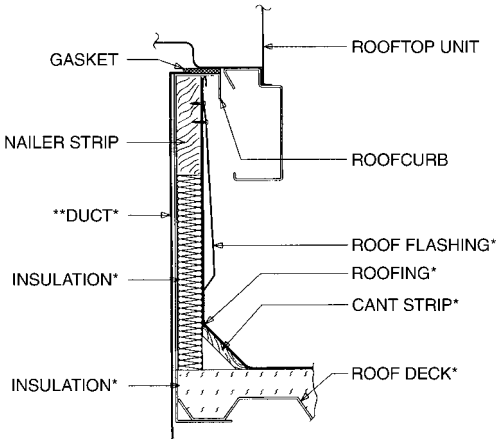


Illustration
ST-A0888-01



CORNER DETAIL



*BY CONTRACTOR

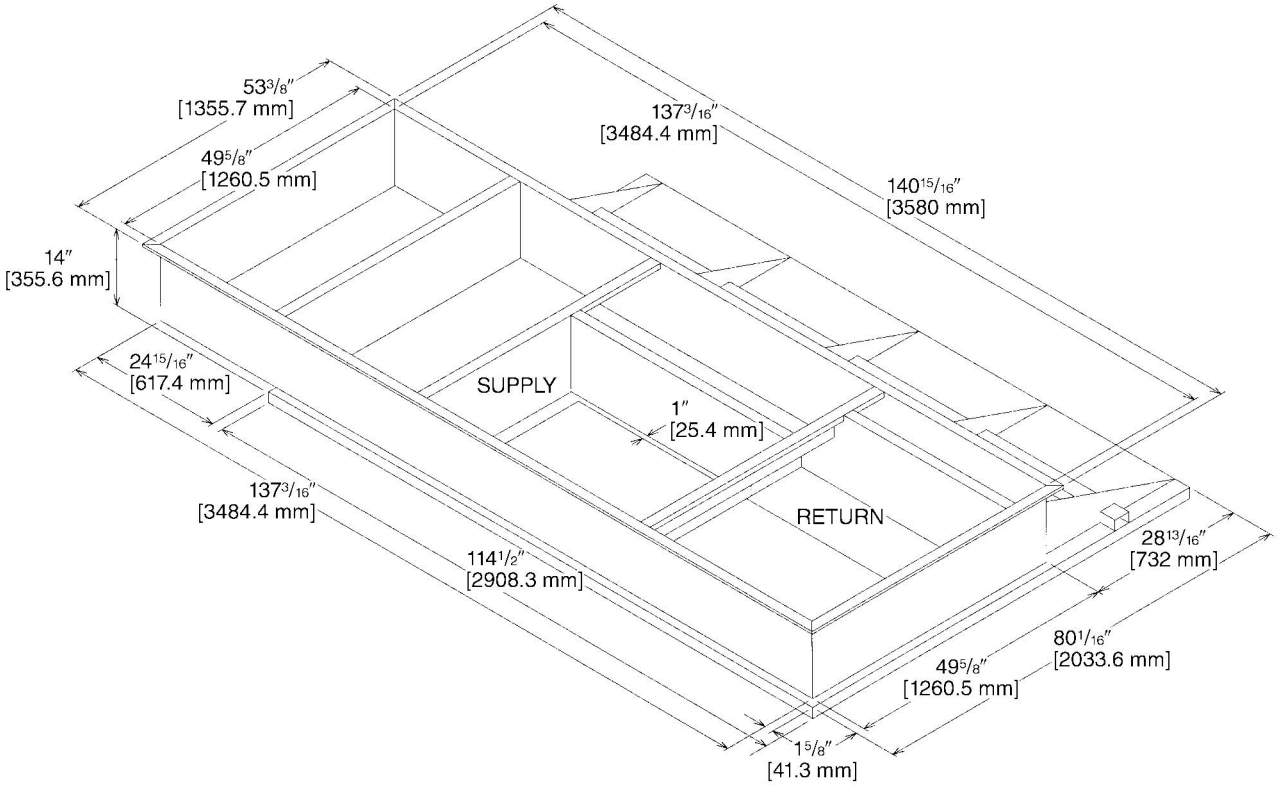
**FOR INSTALLATION OF DUCT AS SHOWN, USE RECOMMENDED DUCT SIZES FROM ROOFCURB INSTALLATION INSTRUCTIONS. FOR DUCT FLANGE ATTACHMENT TO UNIT, SEE UNIT INSTALLATION INSTRUCTIONS FOR RECOMMENDED DUCT SIZES.

Illustration
ST-A0743-02

[ ] Designates Metric Conversions

ROOFCURB ADAPTERS

OLD MODELS	OLD CURB MODEL	ROOFCURB ADAPTER	NEW MODEL
COMMERCIAL CABINET (12.5, 15 & 20 TON) ([44, 52.8 & 70.3 kW]) (-)RCF, (-)RGF, (-)REF	RXRK-E56	RXRX-CHCE56	RLKB, RLMB, RLNB (15, 20 & 25 TON) ([52.8, 70.3 & 87.9 kW])



[ ] Designates Metric Conversions

CONCENTRIC DIFFUSER APPLICATION

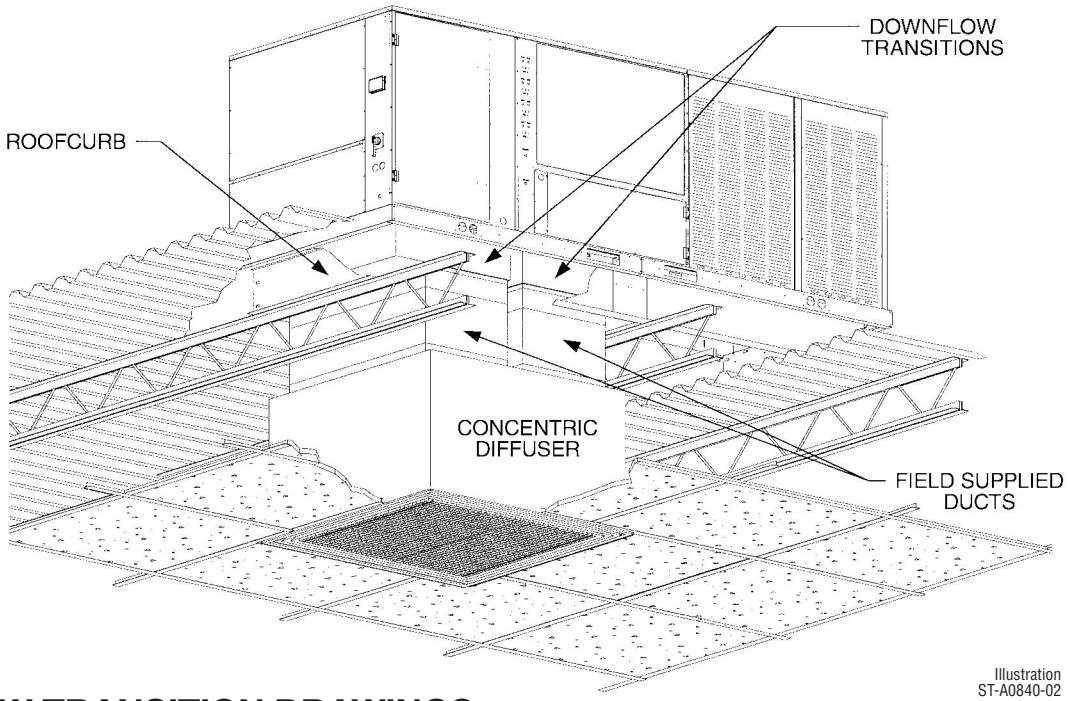
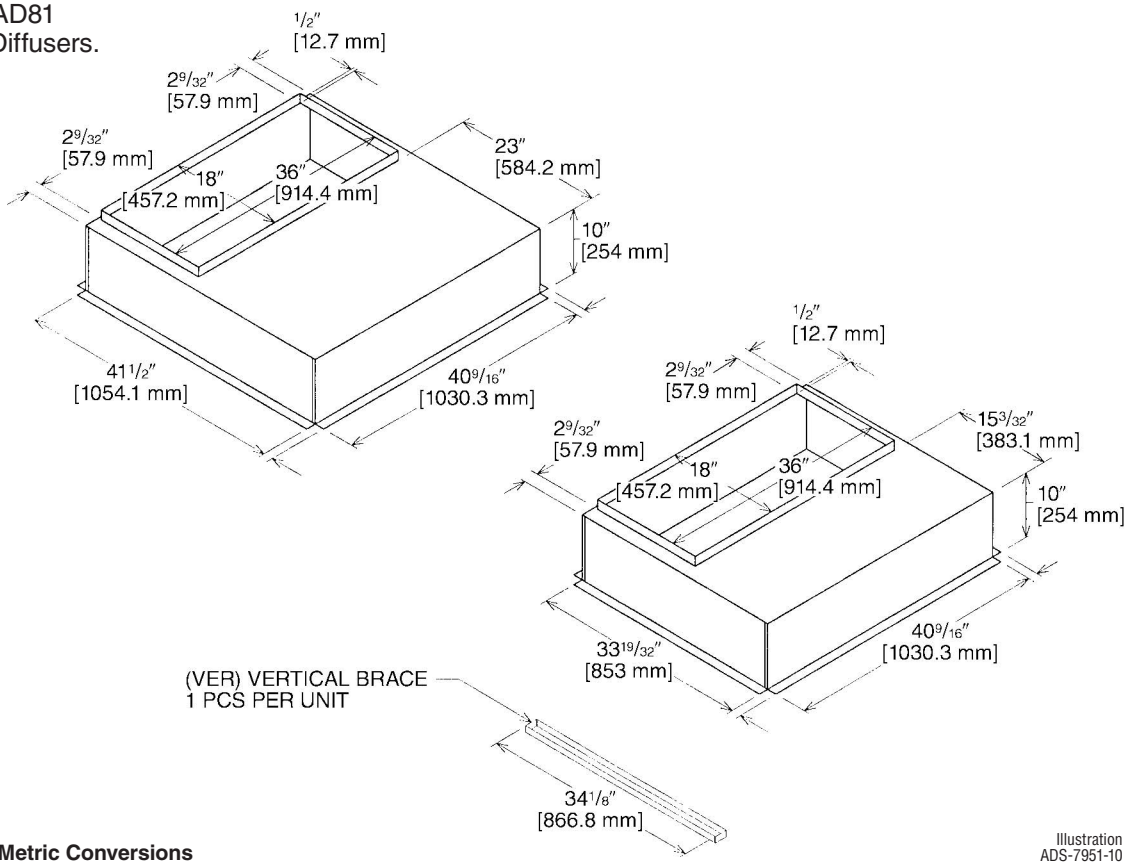


Illustration
ST-A0840-02

DOWNFLOW TRANSITION DRAWINGS

RXMC-CG07 (15 Ton) [52.8 kW]

- Used with RXRN-AD80 and RXRN-AD81 Concentric Diffusers.



[ ] Designates Metric Conversions

Illustration
ADS-7951-10

DOWNFLOW TRANSITION DRAWINGS (Cont.)

RXMC-CH08 (20 OR 25 Ton) [70.3 OR 87.9 kW]

- Used with RXRN-AD85 and RXRN-AD86 Concentric Diffusers.

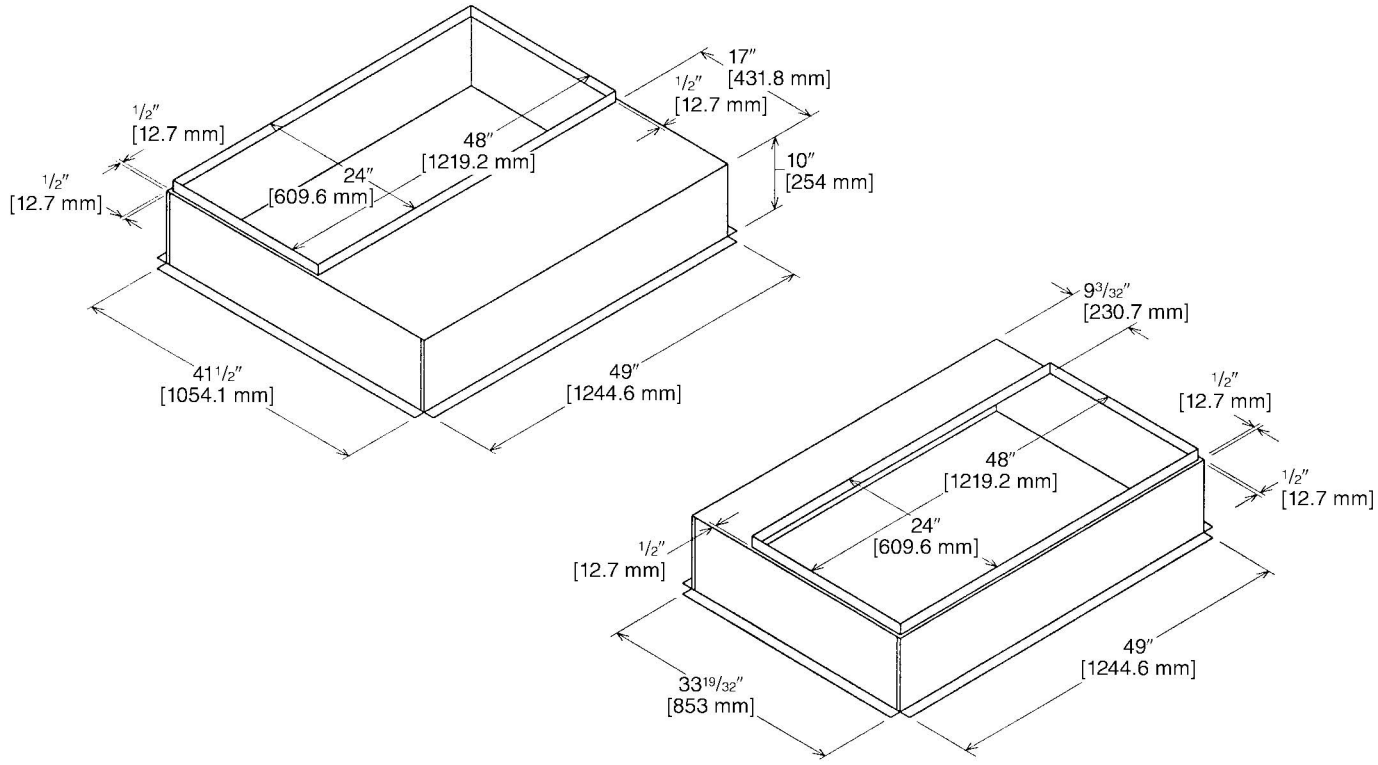
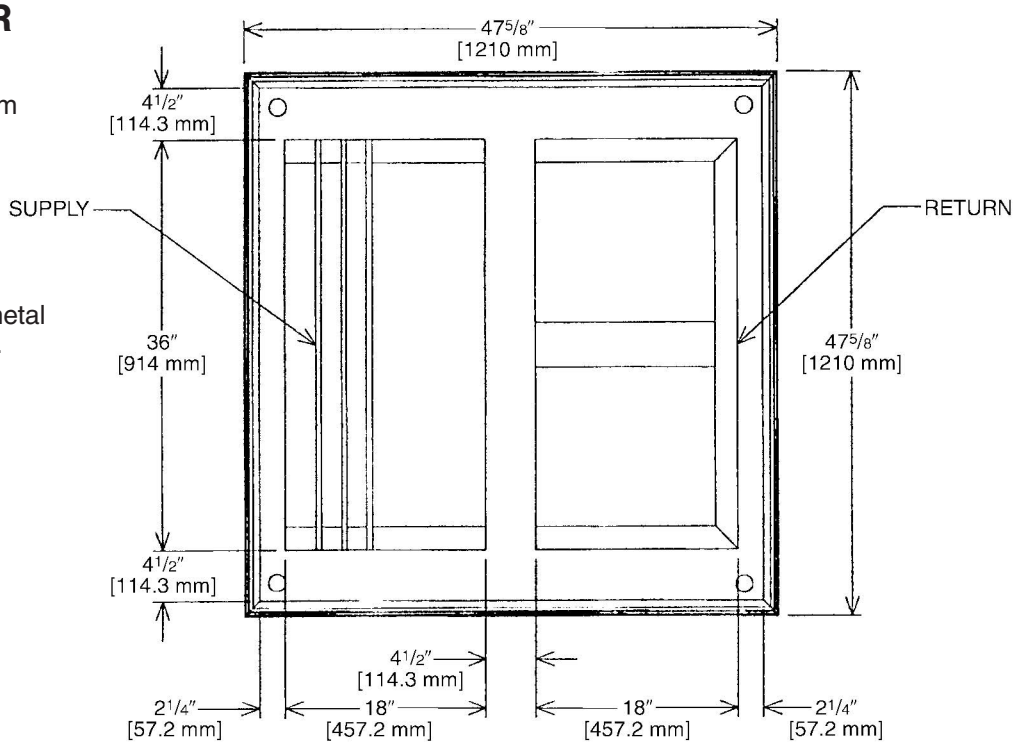


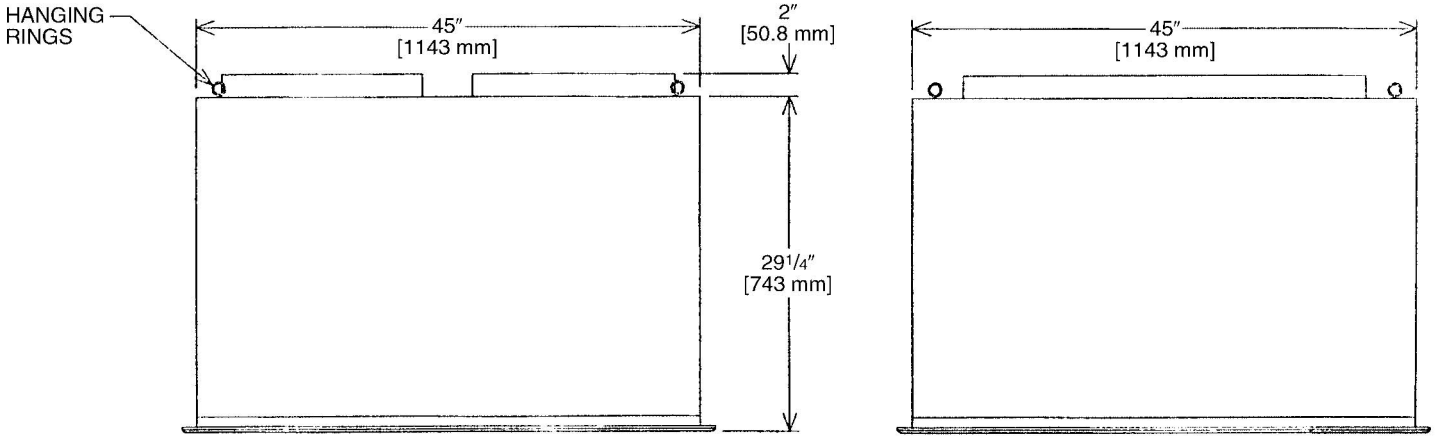
Illustration
ADS-7951-11

[ ] Designates Metric Conversions

CONCENTRIC DIFFUSER 15 TON [52.8 kW] FLUSH

- All aluminum diffuser with aluminum return air eggcrate.
- Built-in anti-sweat gasket.
- Molded fiberglass supports.
- Built-in hanging supports.
- Diffuser box constructed of sheetmetal insulated with 1" [25.4 mm] 1.5 lbs. [.7 kg] duct liner.





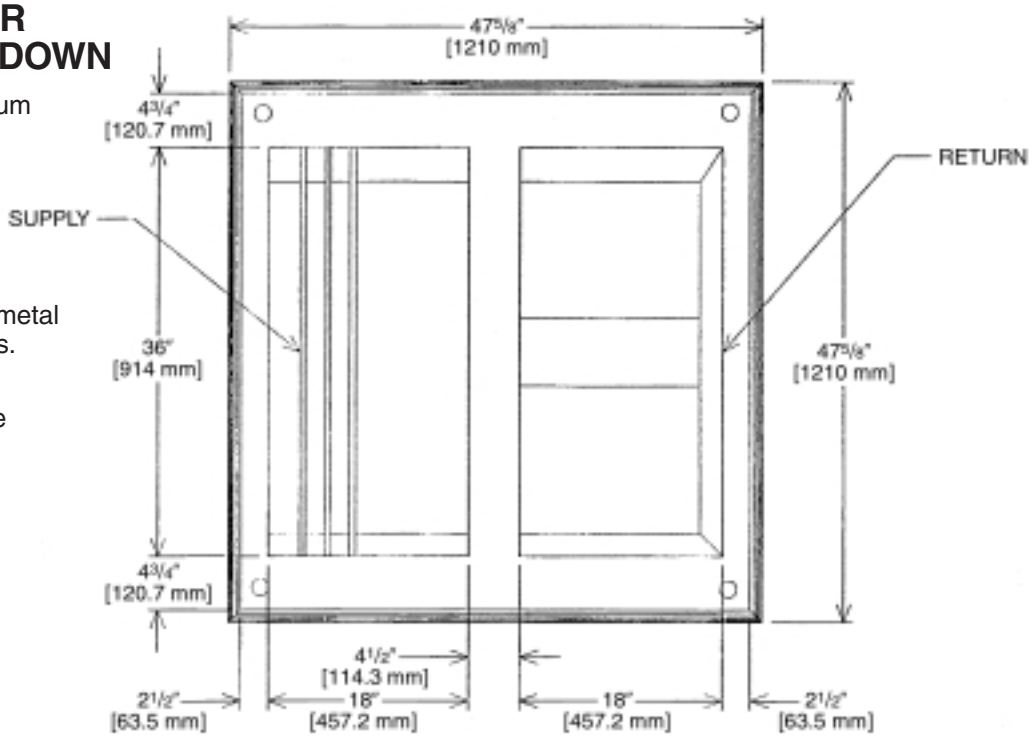
CONCENTRIC DIFFUSER SPECIFICATIONS

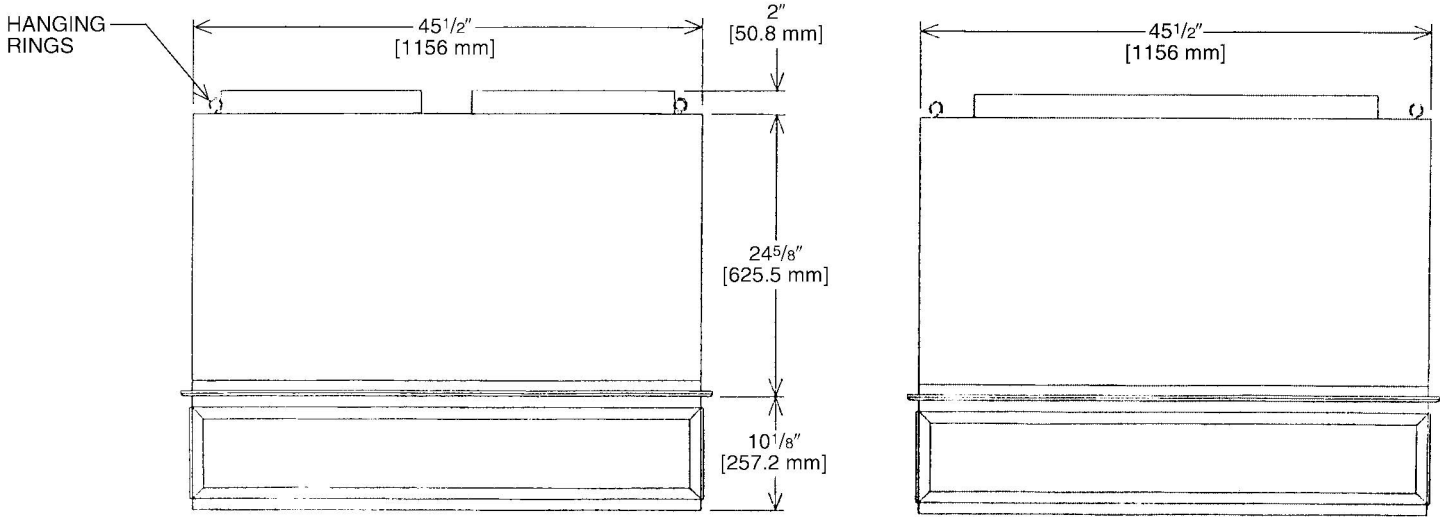
PART NUMBER	CFM [L/s]	STATIC PRESSURE	THROW FEET	NECK VELOCITY	JET VELOCITY
RXRN-AD80	5600 [2643]	0.36	28-37	1000	2082
	5800 [2737]	0.39	29-38	1036	2156
	6000 [2832]	0.42	40-50	1071	2230
	6200 [2926]	0.46	42-51	1107	2308
	6400 [3020]	0.50	43-52	1143	2379
	6600 [3115]	0.54	45-56	1179	2454

[ ] Designates Metric Conversions

CONCENTRIC DIFFUSER
15 TON [52.8 kW] STEP DOWN

- All aluminum diffuser with aluminum return air eggcrate.
- Built-in anti-sweat gasket.
- Molded fiberglass supports.
- Built-in hanging supports.
- Diffuser box constructed of sheetmetal insulated with 1" [25.4 mm] 1.5 lbs. [.7 kg] duct liner.
- Double deflection diffuser with the blades secured by spring steel.





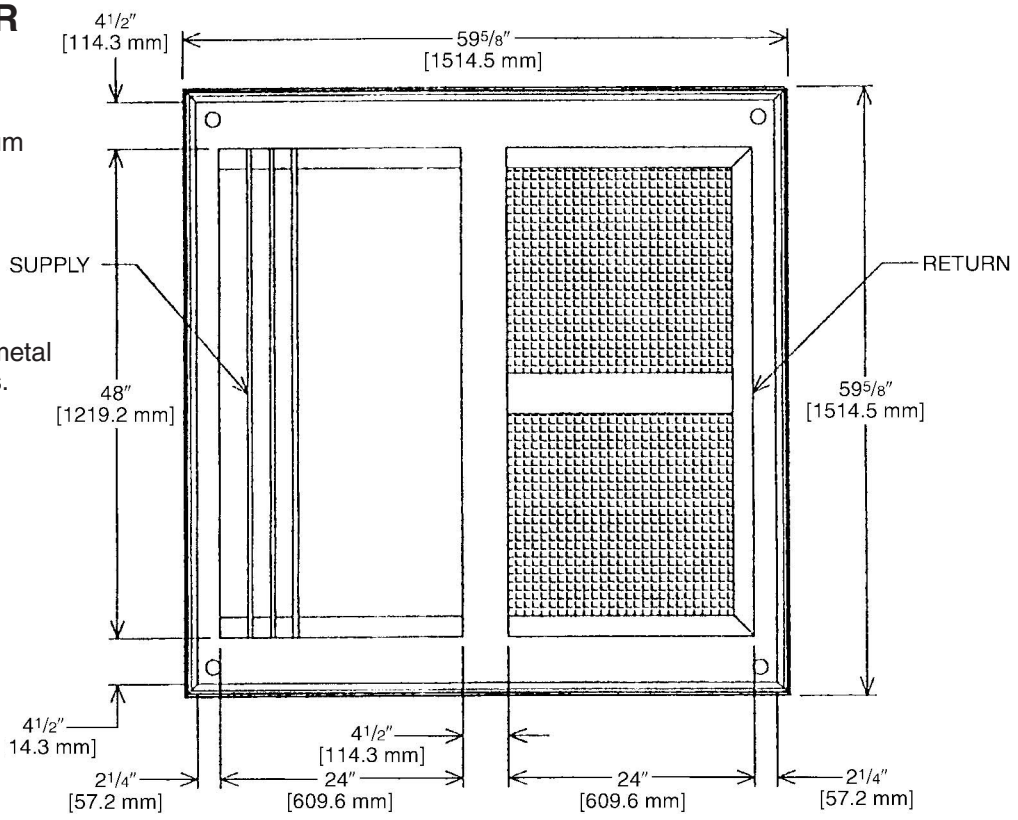
CONCENTRIC DIFFUSER SPECIFICATIONS

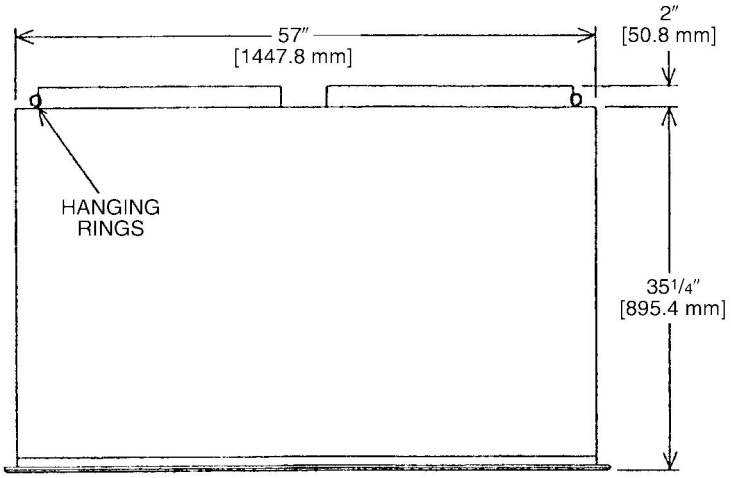
PART NUMBER	CFM [L/s]	STATIC PRESSURE	THROW FEET	NECK VELOCITY	JET VELOCITY
RXRN-AD81	5600 [2643]	0.36	39-49	920	920
	5800 [2737]	0.39	42-51	954	954
	6000 [2832]	0.42	44-54	1022	1022
	6200 [2926]	0.46	45-55	1056	1056
	6400 [3020]	0.50	46-55	1090	1090
	6600 [3115]	0.54	47-56	1124	1124

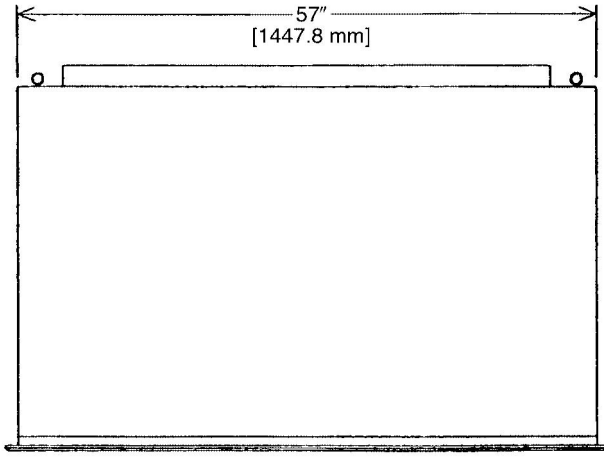
[ ] Designates Metric Conversions

CONCENTRIC DIFFUSER 20 & 25 TON [70.3 & 87.9 kW] FLUSH

- All aluminum diffuser with aluminum return air eggcrate.
- Built-in anti-sweat gasket.
- Molded fiberglass supports.
- Built-in hanging supports.
- Diffuser box constructed of sheetmetal insulated with 1" [25.4 mm] 1.5 lbs. [.7 kg] duct liner.







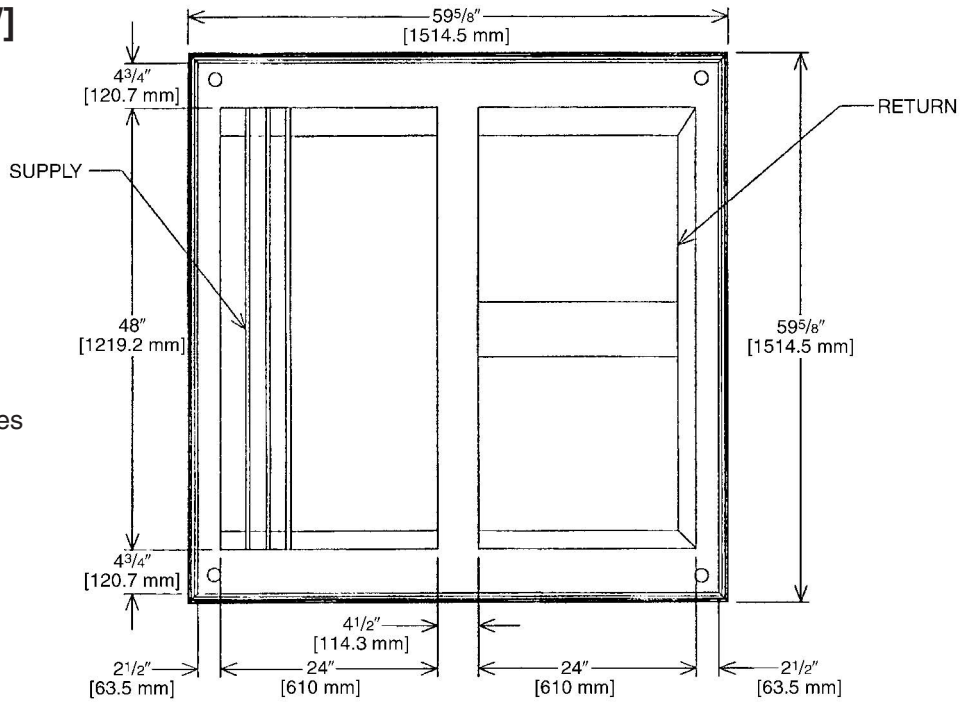
CONCENTRIC DIFFUSER SPECIFICATIONS

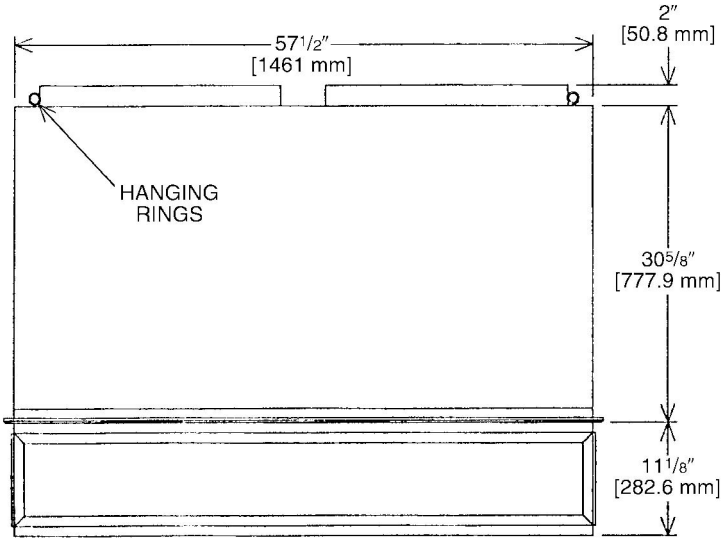
PART NUMBER	CFM [L/s]	STATIC PRESSURE	THROW FEET	NECK VELOCITY	JET VELOCITY
RXRN-AD85	7200 [3398]	0.39	26-35	996	2093
	7400 [3492]	0.41	28-37	1024	2151
	7600 [3587]	0.43	29-38	1051	2209
	7800 [3681]	0.47	40-50	1079	2276
	8000 [3776]	0.50	42-51	1107	2326
	8200 [3870]	0.53	43-52	1134	2384
	8400 [3964]	0.56	44-54	1162	2442
	8600 [4059]	0.59	46-57	1189	2500
	8800 [4153]	0.63	48-59	1217	2558

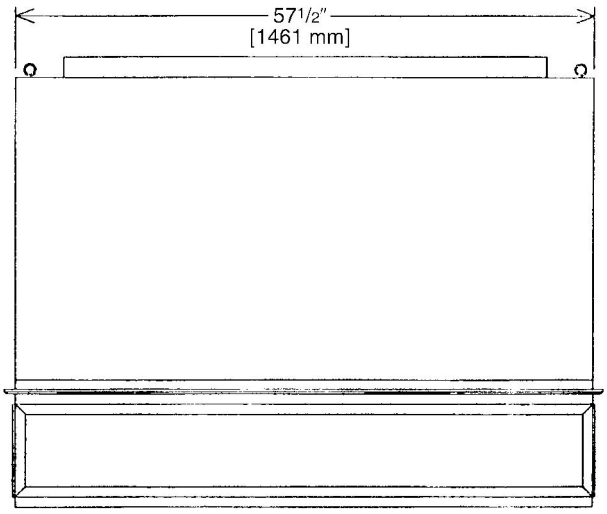
[ ] Designates Metric Conversions

CONCENTRIC DIFFUSER 20 & 25 TON [70.3 & 87.9 kW] STEP DOWN

- All aluminum diffuser with aluminum return air eggcrate.
- Built-in anti-sweat gasket.
- Molded fiberglass supports.
- Built-in hanging supports.
- Diffuser box constructed of sheetmetal insulated with 1" [25.4 mm] 1.5 lbs. [.7 kg] duct liner.
- Double deflection diffuser with the blades secured by spring steel.







CONCENTRIC DIFFUSER SPECIFICATIONS

PART NUMBER	CFM [L/s]	STATIC PRESSURE	THROW FEET	NECK VELOCITY	JET VELOCITY
RXRN-AD86	7200 [3398]	0.39	33-38	827	827
	7400 [3492]	0.41	35-40	850	850
	7600 [3587]	0.43	36-41	873	873
	7800 [3681]	0.47	38-43	896	896
	8000 [3776]	0.50	39-44	918	918
	8200 [3870]	0.53	41-46	941	941
	8400 [3964]	0.56	43-49	964	964
	8600 [4059]	0.59	44-50	987	987
	8800 [4153]	0.63	47-55	1010	1010

[ ] Designates Metric Conversions

MECHANICAL SPECIFICATIONS—RLKB/RLMB/RLNB- SERIES

General

Units shall be convertible airflow. Operating range for units with electromechanical controls shall be between 125°F (51.7°C) and 50°F (4.4°C). Cooling performance shall be rated in accordance with DOE and/or ARI testing procedures. All units shall be factory assembled, internally wired, fully charged with R-22, and 100 percent run-tested before leaving the factory. Wiring internal to the unit shall be colored and numbered for simplified identification. Units shall be UL listed and labeled, classified in accordance to UL 1995/CAN/CSA No. 236-M90 for central cooling air conditioners. Canadian units shall be CUL certified.

Casing

Unit casing shall be constructed of zinc coated, heavy gauge, galvanized steel. Exterior surfaces shall be cleaned, phosphatized, and finished with a weather-resistant baked enamel finish. Unit's surface shall be tested 1000 hours in a salt spray test in compliance with ASTM B117. Cabinet construction shall allow for all maintenance on one side of the unit. All exposed vertical panels and top covers in the indoor air section shall be insulated with a cleanable foil faced, fire retardant permanent, odorless glass fiber material and secured with adhesive and mechanical fasteners. The base of the unit shall be insulated with foil-faced material. All insulation edges shall be either captured or sealed. The unit's base pan shall have no penetrations within the perimeter of the curb other than the raised 1-1/8″ [28.58 mm] high downflow supply return openings to provide an added water integrity precaution. The base rails of the unit shall have provisions for forklift and crane lifting, with forklift capabilities on three sides of the unit.

Unit Top

The indoor top cover shall be one-piece construction, it shall not be double-hemmed and gasket-sealed.

Filters

Two inch [50.8 mm], throwaway filters shall be standard on all units.

Compressors

Units shall have direct-drive, hermetic, scroll type compressors with centrifugal type oil pumps. Motor shall be suction gas-cooled and shall have a voltage utilization range of plus or minus 10 percent of unit nameplate voltage. Internal overloads shall be provided with the scroll compressors. The compressor shall have external isolation to minimize noise.

Refrigerant Circuits

Each refrigerant circuit shall have capillary tubes expansion device. Service pressure ports, shall be factory-installed as standard.

Evaporator And Condenser Coils

Internally finned, 3/8″ [9.53 mm] copper tubes mechanically bonded to a configured aluminum plate fin shall be standard. Coils shall be leak tested at the factory to ensure pressure integrity. The evaporator coil and condenser coil shall be leak tested to 200 psig and pressure tested to 450 psig. A sloped condensate drain pan shall be standard.

Outdoor Fans

The outdoor fans shall be direct-drive statically and dynamically balanced, draw-through in the vertical discharge position. The fan motor shall be permanently lubricated and shall have built-in thermal overload protection.

Indoor Fans

All 3-phase units offer belt drive, FC centrifugal fans with adjustable motor sheaves. All motors shall be thermally protected. All indoor fan motors meet the U.S. Energy Policy Act of 1992 (EPACT).

Controls

Unit shall be completely factory wired with necessary controls and contactor pressure lugs or terminal block for power wiring. Units shall provide an external location for mounting a fused disconnect device.

24-volt electromechanical control circuit shall include control transformer and contactor pressure lugs for power wiring. Unit shall have single point power entry as standard.

Accessories/Option

Roof Curb—The roof curb shall be designed to mate with the unit's downflow supply and return openings and provide support and a watertight installation when installed properly. The roof curb design shall allow field-fabricated rectangular supply/return ductwork to be connected directly to the curb. Curb design shall comply with NRCA requirements. Curbs shall be shipped knocked down for toolless field assembly and shall include wood nailer strips.

Economizer—This accessory shall be either field or factory-installed and is available with barometric relief standard. The assembly includes direct drive gear driver, fully modulating 0-100 percent motor and dampers, minimum position setting, mixed air sensor, wiring harness with plug, and single enthalpy control. Optional differential enthalpy control shall be field-installed. The factory-installed economizer arrives ready for operation.

Remote Potentiometer—Field installed, the minimum position setting of economizer shall be adjusted with this accessory.

Motorized Outside Air Dampers— Field-installed manually set outdoor air dampers shall provide up to 50 percent outside air. Once set, outdoor air dampers shall open to set position when indoor fan starts. The damper shall close to the full closed position when indoor fan shuts down.

Manual Outside Air Damper—Factory or field-installed rain hood and screen shall provide up to 50 percent outside air.

Oversized Motors—Factory installed belt drive oversized motors shall be available for high static applications.

Powered Exhaust—The field installed powered exhaust, available for all units, shall provide exhaust of return air, when using an economizer, to maintain better building pressurization.

Through the Base Electrical Access—An electrical service entrance shall be factory provided allowing electrical access for both control and main power connection inside the curb and through the base of the unit. Option will allow for field installation of liquid-tight conduit and an external field-installed disconnect switch.

Through the Base Electrical with Disconnect Switch—Factory-installed 3-pole, molded case disconnect switch with provisions for through the base electrical connections are available. The disconnect switch will be installed in the unit in a water-tight enclosure with access through a hinged door. Factory wiring will be provided from the switch to the unit high voltage terminal block. The switch will be UL/CSA agency recognized. Note: The disconnect switch will be sized per NEC and UL guidelines but will not be used in place of unit over current protection.

Unpowered Convenience—This factory-installed option is a GFCI, 120v/15amp, 2 plug, and convenience outlet, unpowered. When the convenience outlet is powered, a service receptacle disconnect will be available. The convenience outlet is powered from the line side of the disconnect or circuit breaker, and therefore will not be affected by the position of the disconnect or circuit breaker. This option can only be ordered with the Disconnect Switch.

Freeze/Clogged Filter Switches—This factory or field-installed option allows for individual fan failure or dirty filter protection. If indoor coil gets too cold due to low airflow, compressor operation will be temporarily interrupted.

Enthalpy Control—Single Enthalpy Control shall be standard for all economizers. Enthalpy control offers a higher level of comfort control, along with energy savings potential, than the standard dry bulb control. This is due to the additional wet bulb sensing capability.

High Pressure Cutout—This factory or field installed option is offered for units that do not have high pressure cutout as standard. All scroll compressors shall include Internal Pressure Relief as standard.

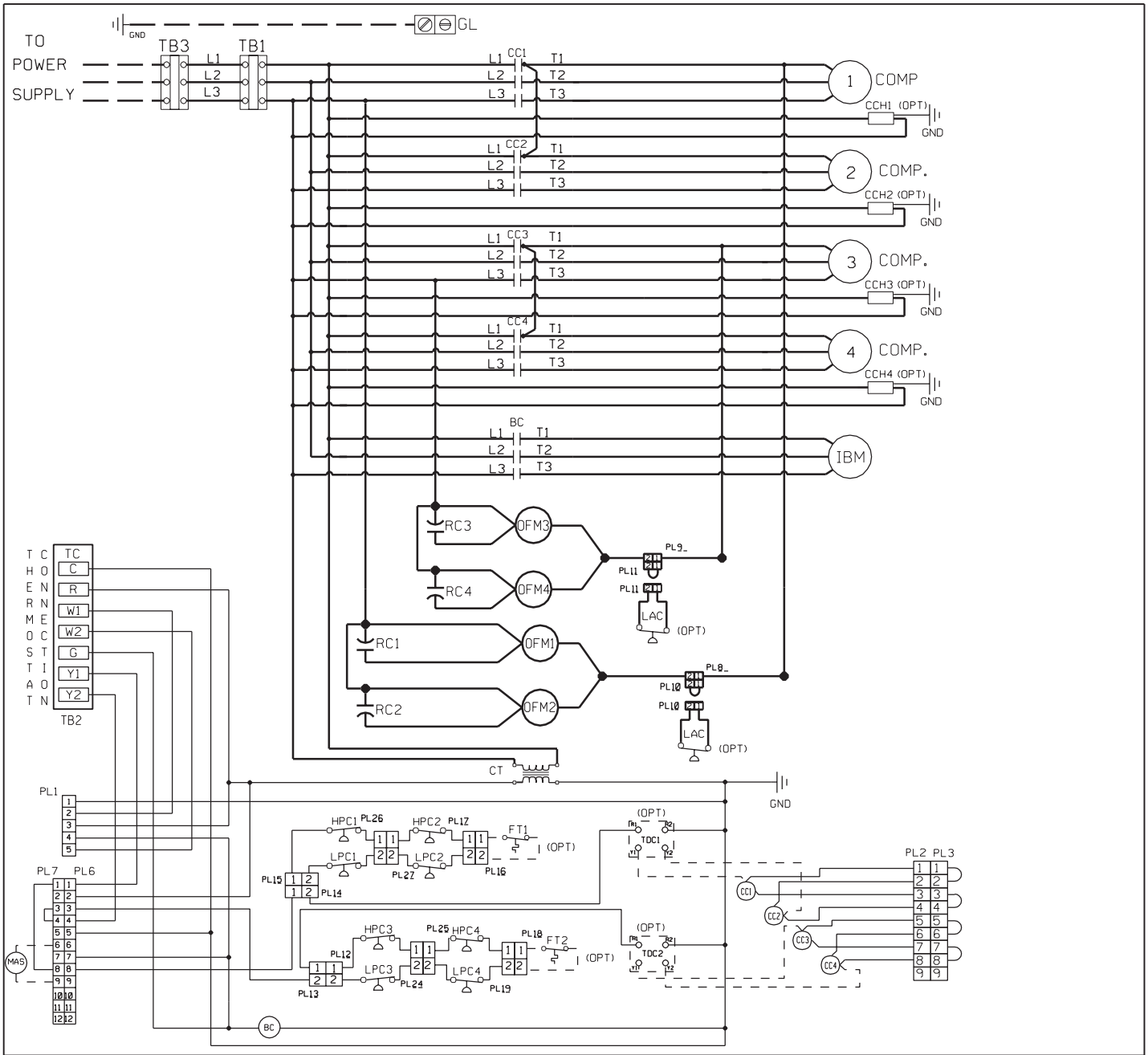
Hinged Access Doors—Stainless steel metal hinges are standard on the Filter/Electrical Access Door and Heat Exchanger door.

Thermostats—Two stage heating and cooling operation shall be available, for field installation, in either manual or automatic changeover. Automatic programmable electronic with night set back shall also be available.

Differential Enthalpy—Adds on to the standard single control with other enthalpy sensors that compare total heat content of the indoor air and outdoor air to determine the most efficient air source. This control option offers the highest level of comfort control, plus energy efficiency available.

Low Ambient Cooling—Electromechanical models have cooling capabilities to 40°F as built, or to 0°F by adding the optional low ambient (frostat) control.

WIRING SCHEMATICS—RLKB/RLMB- SERIES



DWG. NO.	REV
90-42520-04	03

BC	BLOWER MOTOR CONTACTOR
CC	COMPRESSOR CONTACTOR
CCH	CRANKCASE HEATER
COMP	COMPRESSOR
CT	CONTROL TRANSFORMER
FT	FREEZE STAT
GL	GROUND LUG
GND	GROUND
HPC	HIGH PRESSURE CONTROL
IBM	INDOOR BLOWER MOTOR
LAC	LOW AMBIENT CONTROL
LPC	LOW PRESSURE CONTROL
MAS	MIXED AIR SENSOR
OFM	OUTDOOR FAN MOTOR
OPT	OPTIONAL
PL	PLUG
RC	RUN CAPACITOR
TB	TERMINAL BLOCK
TDC	TIME DELAY CONTROL

WIRING INFORMATION

LINE VOLTAGE
- -FACTORY STANDARD
- -FACTORY OPTION
- -FIELD INSTALLED

LOW VOLTAGE
- -FACTORY STANDARD
- -FACTORY OPTION
- -FIELD INSTALLED

REPLACEMENT WIRE
- -MUST BE THE SAME SIZE AND TYPE OF INSULATION AS ORIGINAL (105° C MIN.)

WARNING
- -CABINET MUST BE PERMANENTLY GROUNDED AND CONFORM TO I.E.C., N.E.C., C.E.C., AND LOCAL CODES AS APPLICABLE.

WIRE COLOR CODE

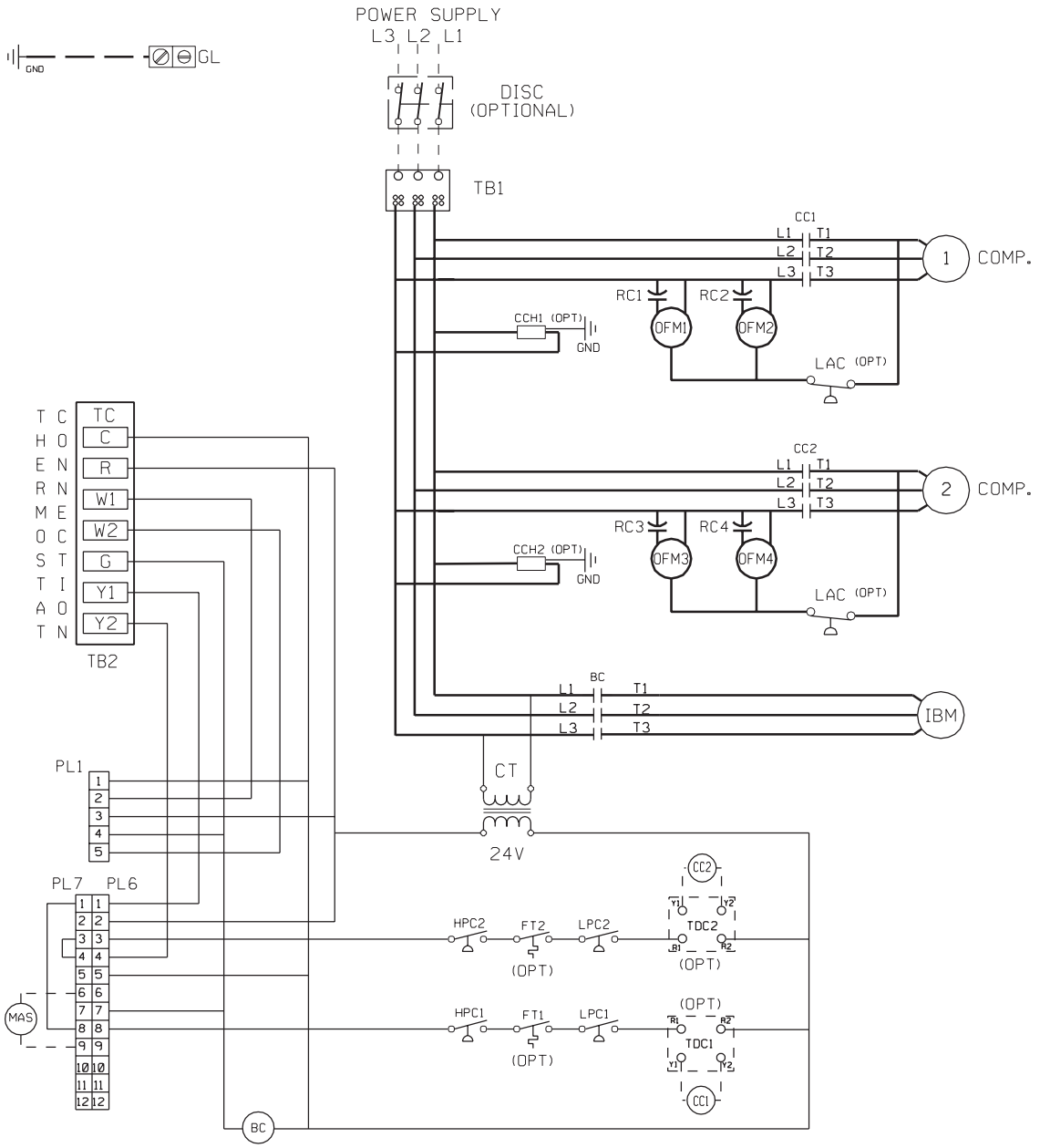
BK__BLACK	O___ORANGE
BR__BROWN	PR__PURPLE
BL___BLUE	R___RED
G___GREEN	W___WHITE
GY__GRAY	Y___YELLOW

WIRING SCHEMATIC

PACKAGED A/C

208-230V, 3PH, 60HZ. / 460V, 3PH, 60HZ.
575V, 3PH, 60 HZ.
380-415V, 3PH, 50HZ. / 200-220V, 3PH, 50HZ.

DR. BY	APP. BY	DATE	DWG. NO.	REV
JHB		6-23-98	90-42520-04	03



DWG. NO. 90-42520-07 REV 01

COMPONENT CODE

BC	BLOWER MOTOR CONTACTOR
CC	COMPRESSOR CONTACTOR
CCH	CRANKCASE HEATER
COMP	COMPRESSOR
CT	CONTROL TRANSFORMER
FT	FREEZE STAT
GL	GROUND LUG
GND	GROUND
HPC	HIGH PRESSURE CONTROL
IBM	INDOOR BLOWER MOTOR
LAC	LOW AMBIENT CONTROL
LPC	LOW PRESSURE CONTROL
MAS	MIXED AIR SENSOR
OFM	OUTDOOR FAN MOTOR
OPT	OPTIONAL
PL	PLUG
RC	RUN CAPACITOR
TB	TERMINAL BLOCK
TDC	TIME DELAY CONTROL

WIRING INFORMATION

LINE VOLTAGE
- -FACTORY STANDARD
- -FACTORY OPTION
- -FIELD INSTALLED

LOW VOLTAGE
- -FACTORY STANDARD
- -FACTORY OPTION
- -FIELD INSTALLED

REPLACEMENT WIRE
- -MUST BE THE SAME SIZE AND TYPE OF INSULATION AS ORIGINAL (105° C MIN.)

WARNING
- -CABINET MUST BE PERMANENTLY GROUNDED AND CONFORM TO I.E.C., N.E.C., C.E.C., AND LOCAL CODES AS APPLICABLE.

WIRE COLOR CODE

BK__BLACK	O___ORANGE
BR__BROWN	PR__PURPLE
BL__BLUE	R___RED
G___GREEN	W___WHITE
GY__GRAY	Y___YELLOW

WIRING SCHEMATIC
RLNB-A18Ø
PACKAGED A/C

208-230V, 3PH, 60HZ. / 460V, 3PH, 60HZ.
575V, 3PH, 60 HZ.

DR. BY	APP. BY	DATE	DWG. NO.	REV
JHB		6-23-98	90-42520-07	Ø1

BEFORE PURCHASING THIS APPLIANCE, READ IMPORTANT ENERGY COST AND EFFICIENCY INFORMATION AVAILABLE FROM YOUR RETAILER.

GENERAL TERMS OF LIMITED WARRANTY

Rheem will furnish a replacement for any part of this product which fails in normal use and service within the applicable periods stated, in accordance with the terms of the limited warranty.

For Complete Details of the Limited Warranty, Including Applicable Terms and Conditions, See Your Local Installer or Contact the Manufacturer for a Copy.

Compressor .....Five (5) Years
Electric Resistance Heater Elements .....Five (5) Years
*Any Other Part .....One (1) Year

***All other parts and components carry a limited warranty of five years, provided they are single-phase products installed in a residential application.**

Before proceeding with installation, refer to installation instructions packaged with each model, as well as complying with all Federal, State, Provincial, and Local codes, regulations, and practices.

RHEEM
AIR CONDITIONING
DIVISION

5600 Old Greenwood Road, Fort Smith, Arkansas 72908

"In keeping with its policy of continuous progress and product improvement, Rheem reserves the right to make changes without notice."

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Supersedes Form No. S11-931 Rev. 0